CONSTRUCTION NEWS

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RAILWAYS.

AUGUSTA & NORTHERN R. R.—The contract has been let to the INDEPENDENT CONSTRUCTION CO., Ward, S. C., to build 12 miles of line to Saluda. The only heavy work will be a 60-ft. plate girder bridge at Red Bank Creek.

BIRMINGHAM, SELINA & PENSACOLA R. R.—Geo. Clarke, Birmingham, Ala., is making surveys for a line to extend from Birmingham to Pensacola by the way of Bessemer, Blockton, Centerville and Marion.

ERIE R. R.—John C. Stuart, Vice-Pres. of this road stated at a hearing before the Interstate Commerce Commission that the road should spend in the next few years $34,917,588, made up as follows: For purchase of land for additional shops, stations, etc., east of Salamanca, $668,920; land west of Salamanca, $61,207; construction of additional roundhouses, shops, machinery, etc., east $5,801,614, west $2,489,435; construction of yards or enlarging sidings, receiving and delivery tracks east, $2,060,014, west $1,492,815; additional stations, warehouses or enlargement of existing stations, warehouses and tracks east $1,584,271, west $250,000; miscellaneous stations east and west, $475,125; cut-offs or for shortening or straightening and improving lines or grade east $2,429,684; west $1,500,000; elimination of grade crossings east $1,305,398, west $233,438; additional running tracks east $1,710,000; water facilities east $15,000, west $55,000; fire protection west $5,898; piping yards for air, east and west, $60,000; automatic block signals main line $1,943,661, suburban lines $300,000; interlocking plants at various points, $312,500; water softeners, $36,500; locomotive cranes, $130,000; other miscellaneous machinery, $250,000; total, $26,271,588; additional equipment, $8,646,000.

ERIE R. R.—The contract for building the second track between Ashland and Nakin, Ohio, had been awarded to FERGUSON & EDMONSON CO., Brookville, Pa.

GEORGIA.—A charter has been granted to construct 20 miles of railroad from Toccoa, Stevens County, to Camesville, Franklin County, Ga., by the way of Wize and Red Hill. S. P. Oliver and O. F. Lenhardt, Camesville, Ga., are interested.

GEORGIA & FLORIDA R. R.—The contract has been let to G. F. LAMB, Thomasville, Ga., to build 1½ miles through the city of Valdosta. W. A. Swallow, Augusta, Ga., is Chief Engr.

LEXINGTON & EASTERN RY.—The contract to build 115 miles of railroad from Jackson, Ky., to Appalachia, Va., has been awarded to WM. J. OLIVER, Knoxville, Tenn. Noted Sept. 29.

LOUISVILLE & NASHVILLE R. R.—A new line is to be constructed from a point two miles east of Jackson to a point beyond Whitesburg. It will penetrate a section of the State that is without railroad and transportation facilities and will open up a country that abounds in timber and mineral lands. The country to be traversed is now sparsely settled, but with the building of the new road coal mines will be opened and sawmill plants installed. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

MINNEAPOLIS & ST. LOUIS R. R.—An agreement has been made to take up the work of constructing a line from Aberdeen to Pierre, S. Dak., over a grade which was built by the city and which is donated to the company at a bonus for their building to this city. W. D. Taylor, Chicago, Ill., is Ch. Engr.

N. Y., NEW HAVEN & HARTFORD R. R.—According to a report originating at Worcester, Mass., engineers of that road are engaged in making a survey for a new line from Boston to Worcester by way Needham and South Framingham, with a view of determining whether the undertaking is practicable. This plan has been under consideration for some time. Such a line would open the possibility of a new through route from New York to Boston, independent of the Boston & Albany. Furthermore, it would give the New Haven the shortest trunk line from Boston to New York, with the exception of the Air Line, by way of Middletown, which is of the same length as the new road will be, if built. E. Gogel, New Haven, Conn., is Ch. Engr.

N. Y., PHILADELPHIA & NORFOLK R. R.—Double tracking of the main line is now under way and before the next season numerous culverts will be lengthened and the entire line double-tracked. An extension will be built front Bayview to Townsend, 6.25 miles. Elisha Lee, Cape Charles City, Va., is Supt.

NORFOLK & WESTERN RY.—The following contracts have been awarded by C. S. Churchill, Roanoke, Va., Ch Engr.: REINHART & DENNIS CO., Evans Bldg., Washington, D. C., first two miles from Cedar Bluff.

WALTON & CO., Falls Mills, Va., second two and one-half miles from Cedar Bluff.

W. O. LIPSCOMB, Roanoke, Va., first two miles above Canebrake, W. Va.

A. M. VALZ, Staunton, Va., second two miles above Canebrake, W. Va.

P. J. MILLETT, Paris, Ky., third two and three-quarter miles above Canebrake, adjacent to Summit tunnel.

VAUGHN CONSTRUCTION CO., Roanoke, Va., first two miles extension North Fork Branch.

CARPENTER & BOXLEY, Roanoke, Va., second two miles extension North Fork Branch.

PENNSYLVANIA R. R.—Cleveland & Pittsburg.—It is rumored that the company will shortly commence work on the completion of the proposed low grade cut off from Smith's Ferry, Pa., to Kensington, Ohio. This road was originally planned several years ago and while a start was made it was never completed. It is understood that the engineers have lately passed through the West Beaver Valley, again going over the route that was mapped out several years ago. According to the plan the cut off leaves the main tracks of the Cleveland & Pittsburg near Smith's Ferry. Taking a northwesterly course it proceeds through the country near the West Beaver Valley, thence back to Salineville to Kensington, Ohio., meeting the main line at that point, a few miles from Alliance. Over a year ago RINEHART BROS., East Liverpool, Ohio, were awarded the contract for the preliminary work at Smith Ferry. This was only a beginning and was completed about the time of the late financial stringency. Alexander C. Shand, Philadelphia, Pa., is Ch. Engr.

ST. MARY'S & KINGSTON R. R.—A charter has been granted to this railroad to build a line from Kingston, Camden County, Ga., to meet the Georgia Southern & Florida Ry., either at Adel or Sparks, Ga. The total distance is about 120 miles. L. Johnson, St. Mary's Ga., is Pres. and Gen. Mgr.

WILLAPA HARBOR & COAST LINE RY.—This company was incorporated recently in Washington, with a capital stock of $10,000,000. John W. Kleef, South Bend, Wash., is interested. The purpose is to build from Portland to South Bend and thence through the North River section of Chehalis Valley, to Tacoma. The first section of the railroad will connect with Willipa Harbor and Gray's Harbor. The Harriman railroad to Gray's Harbor is now building a branch running nearly to Willipa Harbor.

CANADA.—Cable instructions have been received to push work on the Hudson's Bay & Pacific R. R., which will run from Prince Albert, Sask., to Hudson's Bay. George Attwood, Prince Albert, is Ch. Engr.

The Canadian Northern R. R. has filed plans for a branch line from Springfield to East Selkirk, Man., a distance of about 20 miles. Tenders will also be asked for the construction of a line from Chillwack to Lutton, B. C., about 90 miles. M. H. McLeod, Gen. Mgr.

Edson J. Chamberlain, Gen. Mgr. of the Grand Trunk Pacific R. R. announces that the company will not run passenger trains on the section eastward from Winnipeg until next summer. It is reported the roadbed does not come up to the high standard of the western line.

The Canadian Northern R. R. will call for tenders for the construction of the branch from Chilliwac to Lytton, B. C., 90 miles in length. M. H. McLeod, Winnipeg, Man., is Gen. Mgr.

The contract for clearing the right of way of the Cowichan Lake branch of the Esquimalt & Nanamo R. R. has been let to JANSE MACDONNALL & TIMOTHY.

CUBA.—Advices from John B. Jackson, U. S. Consul at Havana, Cuba, are as follows:

President Gomez has contracted with the Ferrocarril de Fernandez a Placetas del Sur, a corporation organized for constructing a forty-mile railway, connecting the two places indicated in the company's title, and has leased to it the old Trinidad Railway, which runs from Castilda, on the south coast, through Trinidad to Fernadez. The railway company is to begin work on the new line and the reconstruction of the old by December 24, and it is expected that the whole line will be in working order about eighteen months later. Trinidad will thus be placed in direct railway communication with the rest of the island, being the last urban center of any importance to be so connected. The new corporation will enjoy the benefits of the law of July 5, 1906, in regard to subvention.

"Another proposition which had been made by the Cuba Railroad (Sir William Van Horne) to take over the old line and carry it on to Sancti Spiritus on the main line, within six months, was rejected as being prejudicial to the interests of the other terminal cities. The Ferrocarril de Fernadez, a Placetas del Sur is said to be backed by French capital to the extent of $2,000,000."

ELECTRICAL RAILWAYS.

SUFFERN, N. Y.—An extension of the lines of the North Jersey Rapid Transit Co., Paterson, N. J., to Suffern, is contemplated. A part of the right-of-way has been obtained. The company is seeking a franchise to operate its cars in Suffern. The proposed line will be about 18 miles long. E. A. Hoffman, Paterson, N. J., is Ch. Engr.

MIDLAND, PA.—The Midland Pennsylvania R. R. Co. has been chartered to build a 43-mile railway to connect Midland, Killinger, Berrysburg, Gratz, Sacramento, Hegius, Weisample, Maple and Gordon. The incorporators are: Walter E. Harrington, Pottsville; John H. Williams and Charles G. Shodle.

WHEELING, W. VA.—A charter has been granted to the Pittsburg, Stubenville & Wheeling Ry. Co., The incorporators are: W. H. Hildebrand, Pittsburg, Pa.; H. G. Young, John C. Bond, Homer Gray and V. H. Stewart, all of Charleston, W. Va. It is stated that about one-half of the right-of-way between Pittsburg and Wheeling has been secured. The proposed route will be as follows: Pittsburg, Mount Lebanan, Ridgeville, Millers Run and Reising, McDonald, Midway, Burgettstown, thence through to Cross Creek and on to Azella, where there is a large undeveloped coal region, striking Independence near the State Line. From that point on there is no definite plan for the survey, but plans are under way, it is said, to connect with the lines of the Pan-Handle Traction Co. at Wellsburg, and come into Wheeling over that line.

GLASGOW, KY.—The Louisville, Lincoln Farm & Mammoth Cave Traction Co. has recently been incorporated to build a 50-mile electric railway to connect Hodgenville, Glasgow, Lincoln Farm and Mammoth Cave. The incorporators are: L. W. Preston, J. A. McDaniel, J. F. Taylor and J. L. Williams.

CALDWELL, OHIO.—Citizens of this place and Pine Brook are planning to build an electric line between Caldwell and Denville, 11 miles. Wm. Kerris, Pine Brook, Ohio, is interested.

ZANESVILLE, OHIO.—Capital is said to have been secured for the construction of a new suburban line known as the Orrville, Barberton, Coshocton & Zanesville Electric R. R. Tracks to Orrville are promised in 18 months. J. J. Breitinger, Cleveland, Ohio, is Pres., and W. E. Brooks, Elyria, Ohio, is Vice-Pres.

EVANSVILLE, IND.—The construction of a 65-mile interurban railway, to connect Evansville, Ind., and Mt. Carmel and Olney, Ill., is contempiated by the Evansville, Mt. Carmel & Olney Electric Ry. Co. Aden Knoph, Olney, Ill., is Pres., and E. Q. Lockyear, Evansville, Ind., Secy.

KALAMAZOO, MICH.—The Lake Michigan & Kalamazoo R. R. contemplates the construction of a line from Kalamazoo through Paw Paw, Lawrence, Hartford, Watervliet, Coloma and Benton Harbor to St. Joseph, a distance of about 50 miles. The capital has been secured, according to press advices. About seven miles of grading has been finished. William A. Blake, Coloma, is Pres.; William C. Plumb, Paw Paw, Secy., and John H. Notley, Kalamazoo, Treas.

WATERLOO, IOWA.—Announcement has been made that the Waterloo, Cedar Falls & Northern Ry. Co. will extend its interurban line to Dike, by the way of Cedar Falls. The projected line will cover 18 miles. The distance between Cedar Falls and Dike is 10.5 miles. The line will eventually be extended from Dike to Grundy Center, thence to Marshalltown. This will necessitate crossing the C. & N. W. Railway at Dike, the C., R. I. & P. at Grundy Center and the C. & N. W. again at Conrad. T. E. Rust, Waterloo, Iowa, is Ch. Engr.

ST. PAUL. MINN.—A fifth interurban line between St. Paul and Minneapolis is under contemplation by the Twin City Rapid Transit Co. The line will be across Franklin Ave., in Minneapolis, connecting in St. Paul with the Rondo-Maria line, which will be extended through Merriam Park to the river by way of St. Anthony Ave. Geo. L. Wilson, Minneapolis, Minn., is Ch. Engr.

SAN BENITO, TEX.—S. A. Robertson, of San Benito, and associates, who are constructing the system of interurban railway that is to connect this place with a number of other towns in the lower valley of the Rio Grande, expect to have the first division of the system finished between San Benito and the Cowgill sugar plantation in a few weeks. Work of laying the track on this division is being pushed in order that the line may be finished and ready to handle this season's sugar cane crop. The road will do a freight and passenger business. The chief object in its construction is to transport the cane crop of this part of the lower Rio Grande Valley.

SAN ANTONIO, TEX.—T. B. Deen, of Cleveland, Ohio, who is interested in the construction of an interurban electric railway between San Antonio and Austin, 51 miles, is going over the route of the proposed line for the purpose of gathering data as to the probable traffic and other matters connected with the project. It is stated that the construction of the line will depend largely upon his report as to its feasibility from a business standpoint.

STRATFORD, ONT.—At a special meeting of the Council on Sept. 23, the agreement between the city and the Stratford Ry. Co. was signed. It provided for an electric street railway system in the city and suburbs.

TORONTO, ONT.—The City Engineer and City Solicitor have made a joint report to the Board of Control recommending the construction by the municipality of certain lines of electric railway in the newly annexed districts, comprising 9.7 miles, of which about 1.25 miles would be single track. The cost is estimated at $570,000 for the system complete, with rolling stock, stations and equipment, included in which is $250,000 for the overhead and track work and $320,000 for road pavements. The whole question, with plans, will be submitted to the electors on Jan. 1, 1911.

WINNIPEG, MAN.—Joseph Bernier, of Manitoba, is applying to the St. Vital Council for a 30-year franchise for an electric railway line. The Rural Ry. Co. agrees, if granted a franchise, to construct a 5-mile section by Nov. 1, between either Winnipeg or St. Boniface, through to St. Vital Village. Joseph Bernier is Secy., and Charles E. Lewis, Minneapolis, Minn., is Pres. of the company. The Council referred the proposition to its solicitor.

CULIACON, MEX.—See item under Light and Power Plants.

LIGHT AND POWER PLANTS.

(** Denotes that this work is advertised in Engineering News.*)

HULL, MASS.—The War Department has awarded contract to the TOWN OF HULL for supplying Fort Andrews, Peddocks Island, with electricity from the municipal electric plant at Whitehead. Estimated cost of connecting the fort with the electric plant, about $10,000.

BOSTON, MASS.—The contract for the installation of two main steam turbine-driven centrifugal pumping units at the Calf Pasture pumping station, Dorchester, on foundations already in place, has been awarded to the POWER EQUIPMENT CO., Board of Trade Bldg., Boston, Mass., at $36,063.

CLINTON, MASS.—The Metropolitan Water & Sewerage Board, Boston, Henry H. Sprague, Chm., will soon ask bids for the installation of a hydroelectric plant in the power house erected some years ago at the Wachuset dam. Development of 2,500 HP. The sum of $115,000 has been appropriated for this work. The Connecticut River Transmission Co. has secured the right to distribute the power, paying approximately 5½ cts. per KW.-hour.

BOSTON, MASS.—Bids will be received until Oct. 31 by J. Alfred Mitchell, County Audr., Boston, for installing electric wires, fixtures and appurtenances for the male portion of the Suffolk County Jail.

NEW BRITAIN, CONN.—The contract for lighting Central Park has been awarded by the Board of Public Works to the HOUSATONIC POWER CO. The company will furnish 70-watt lamps at $20 each per year.

TROY, N. Y.—Bids will be received until Oct. 21 by the Board of Contract and Supply (James M. Riley, Secy.) for furnishing and installing gas and electric light fixtures in School No. 1.

ALBANY, N. Y.—The bids received by the State Commission in Lunacy on Oct. 11, for underground feeder cables at the Buffalo State Hospital were: Wheeler-Green Electric Co., Rochester, N. Y., $4,300; Edward Joy Co., Syracuse, N. Y., $5,841; New York Construction Co., Marbridge Bldg., New York, $3,952; Safety Insulated Wire & Cable Co., 114 Liberty St., New York, $4,486. For header mains at the same institution: Edward Joy Co., Syracuse, $4,820; John W. Danforth Co., Buffalo, $2,500. F. B. Ware is State Arch.

NEW YORK, N. Y.—Bids will be received by the Department of Public Charities until 2.30 p. m., Oct. 25, for furnishing all the labor and materials necessary for steam heating for three cottages, New York City Farm Colony, Boro. Richmond.

NEW YORK, N. Y.—Bids were opened on Oct. 10 by C. B. J. Snyder, Supt. School Buildings, New York, for installing electric equipment in School 166, Boro. Brooklyn. The contract has been awarded to the COMMERCIAL CONSTRUCTION CO., 24 State St., New York, at $10,973.

Bids will be received by William H. Edwards, Comr. of St. Cleaning, until noon, Nov. 1, for furnishing all the labor and materials required for the construction and installation of an electric lighting system in several buildings of the Department of Street Cleaning.

NEW YORK, N. Y.—Bids will be received until 3 p. m., Oct. 31, by C. B. J. Snyder, Supt. of School Buildings, for installing heating and ventilating apparatus in additions to and alterations in Erasmus Hall High School, on the easterly side of Flatbush Ave., about 205 ft. north of Grant St., Boro. Brooklyn; and for the installation of electric equipment in addition to and alterations to present equipment in Girl's High School, on the easterly side of Nostrand Ave., between Halsey and Macon Sts., Boro. Brooklyn.

*NEW YORK, N. Y.—The time for opening bids for the heating and ventilating system in the new New York Post-Office has been extended from Nov. 3 until 3 p. m., Dec. 1. James Knox Taylor is Superv. Arch., Treasury Dept., Washington, D. C.

The time for opening bids for an electric elevator equipment in the new post-office building at New York has been extended from Nov. 3 to 3 p. m., Dec. 1.

UTICA, N. Y.—See item under Manufacturing Plants.

HUDSON, N. Y.—Bids were received by Charles H. Strong, Pres. Bd. Mgrs., New York State Training School for Girls, Hudson, on Oct. 1, for power-house equipment, etc., as follows: Electric work and feeder cable: Lord Electric Co., 213 West 40th St., New York, $13,937; Frost & Sheldon, Albany, $12,400; Troy Electrical Co., Troy, $13,988; Wheeler-Green Electric Co., St. Paul St., Rochester, $13,830; New York Construction Co., 1328 Broadway, New York

$11,524; Watson-Flagg Engineering Co., 27 Thames St., New York, $12,149; W. M. Sheehan & Co., 136 Liberty St., New York, $13,683. Steam and plumbing work: Blake & Williams, 24 Barrow St., New York, $36,548; Gaylord & Eitapence Co., Binghamton, $37,762; W. B. Armstrong, 6 Fulton St., Albany, $33,889; R. T. Ford Co., Rochester, $33,775.

QUINCY, PA.—M. I. Kast, 216 Market St., Harrisburg, Pa., is preparing plans for an electric lighting plant at the United Brethren Church Orphanage here, 1-story brick building. H. J. Kitzmiller is Supt. Bids will be asked this fall, and work started as soon as the contract is let. The machinery specifications have not been taken up yet. Estimated cost, $12,000.

BALTIMORE, MD.—Robert J. McCuen, Supt. Dept. Lamps and Lighting, has submitted to the Mayor a recommendation providing for the establishment of a municipal electric plant for the purpose of serving the city street lamps and public buildings. He estimates the cost of such a plant, allowing for the value of the real estate, transmission lines and other equipment, at $909,050. The maintenance cost, allowing for interest on the investment, loss in taxes, depreciation, loss in municipal subway rentals, repairs, line transmission losses, insurance, labor, tools, supplies and the annual reproduction of 6,470,779 KW.-hours, is estimated at $247,606, and the cost to the city per arc lamp per year for the street lighting at $43.20, and current for the public buildings a 1.9 cts. per KW.-hour.

ANNAPOLIS, MD.—Bids will be received by the Navy Department, Washington, D. C., until 11 a. m., Nov. 12, for completing the power plant at the U. S. Naval Academy, Annapolis. Beekman Winthrop is Acting Secy.

WASHINGTON, D. C.—Bids were opened on Oct. 8 by the Department of the Interior, Washington, D. C., for the construction of a radial brick chimney for the power plant of the Freedman's Hospital and Howard University, Washington. Contract has been awarded to H. R. HEINICKE, 147 Fourth Ave., New York, at $3,480.

EMPORIA, VA.—The Emporia Mfg. Co. has changed the driving power of its plant from steam to electricity. Power for operating the works is supplied by the EMPORIA HYDRO-ELECTRIC CORPORATION, which has been awarded a 10-year contract by the company.

FOSTER FALLS, VA.—The Foster Falls Co., lately incorporated with a capital stock of $100,000, is contemplating the construction of a hydroelectric power plant here on New River. It is estimated that from 3,000 to 4,000 HP. can be developed, which will be utilized to operate the mining plants of the Virginia Coal and Coke Co., of Bristol, Va. John W. Cune is Secy. and Treas., Roanoke, Va.

PARKERSBURG, W. VA.—The WESTINGHOUSE ELECTRIC MFG. CO., 209 Ninth St., Pittsburg, Pa., has been awarded the contract for a 2,000-KW. generator to be installed in the plant of the Parkersburg Marietta & Interurban Co. for the commercial lighting circuit of this city. C. H. Shattuck is Pres.

The city will soon ask for bids for lighting the streets, bids on the basis of 1 year and 10-year contracts to be asked. The present contract expires Jan. 10.

BLUEFIELD, W. VA.—The Bluefield Gas & Fuel Co., Bluefield, has commissioned Louis F. Rancke, Engr., of the Baltimore Retort & Fire Brick Co., Hull and Nicholson Sts., Baltimore, Md., to prepare plans and specifications for the proposed gas plant to be erected at Bluefield, to manufacture coal gas for heating and illuminating purposes. The plant will be 30 × 50 ft., 24 ft. high, gas holder to contain 75,000 cu. ft.; 54 ins. in diameter and 22 ft. 6 ins. deep with a daily capacity of 100,000 cu. ft. W. H. McARTOR has contract for foundation and concrete work.

JACKSONVILLE, FLA.—The Board of Trustees has engaged the Scofield Engineering Co., Arcade Bldg., Philadelphia, Pa., to prepare plans and supervise the construction of the new municipal electric plant on Talleyrand Ave. The new station will have an output of 7,000 KW. and provisions have been made for future extensions. Estimated cost, $375,000.

MONTGOMERY, ALA.—The City Council has granted a franchise to the Montgomery Traction Co. to construct and operate an electric light and power plant. Estimated cost, $500,000.

BOYLES, ALA.—Plans for the foundations of the new power-house of the Louisville & Nashville R. R. Co.'s shops at Boyles have been completed. W. H. Courtenay is Ch. Engr., Louisville, Ky.

MERIDIAN, MISS.—Contract has been awarded, it is reported, by the Meridian Light & Ry. Co., for the construction of an addition to its boiler-house in which to install a 500-HP. boiler.

BOGALUST, LA.—See item under Water Supply—Irrigation.

PAINTSVILLE, KY.—STUART H. BOWMAN and H. H. HUGHES, of Huntington, W. Va., have been awarded the contract for building and equipping an electric light and water plant here.

YOUNGSTOWN, OHIO.—We are officially advised that the contract for heating and ventilating for three school buildings has been awarded by the Board of Education to the BARTLETT BROS. CO., of Cleveland, Ohio, at $28,755. Bids were opened on Oct. 11.

DELAWARE, OHIO.—The ELECTRIC SUPPLY CO., North Third St., Columbus, has secured the contract for the electric work on the new high school building here.

CLEVELAND, OHIO.—Bids will be received by the Board of Education until noon, Oct. 31, for installing and completing the heating and ventilating system for the Glenville High and Hodge Schools.

INDIANAPOLIS, IND.—The Washington Hydraulic Co., recently incorporated, will build a series of dams across the Tippecanoe River from the mouth of the river north at intervals. Harry Wade, 308 K. of P. Bldg., is Gen. Mgr.

*GRAND RAPIDS, MICH.—Bids will be received by the Board of Public Works until 8 p. m., Oct. 27, for furnishing one open-type, vertical feed-water heater and purifier. Samuel A. Freshney is Secy. and Gen. Mgr.

MONROE, MICH.—See item under Manufacturing Plants.

NILES, MICH.—The Niles Gas Co., C. G. Atkinson, Pres., is contemplating an addition to its present gas plant.

EAST ST. LOUIS, ILL.—Plans are being considered by the Lighting Committee of the City Council for installing cluster lamps in the business district, if satisfactory arrangements can be made with the lighting company.

BROADLANDS, ILL.—C. W. HAGERMAN, of Villa Grove, Ill., has been awarded contract for supplying electrical service in Broadlands from the plant at Villa Grove. Additional machinery will be installed at the Villa Grove plant.

NEW GLARUS, WIS.—Plans are being considered for enlarging the municipal electric light plant.

MADISON, WIS.—We are officially advised that the State Board of Control, Madison, will buy one 700-gallon high-lift turbine pump and one 100-HP. steam engine. Address M. J. Tappins, Secy. W. G. Kirchoffer is Engr., Madison.

PRAIRIE CITY, IOWA.—F. L. Breeden, owner and manager of the Colfax electric light and power plant, Colfax, has secured a franchise here. A 6,600-volt transmission line will be erected and the company is in the market for materials. C. A. Archer is Supt.

CHISHOLM, MINN.—The Range Power Co. is preparing to improve its power plant, including the installation of a new 400-HP. engine.

MINNEAPOLIS, MINN.—The Twin City Rapid Transit Co. is contemplating the erection of two steel stacks at its power-house here to cost about $50,000.

ANOKA, MINN.—Bonds for $8,000 have been voted for improvement to the light and water plant.

NATIONAL MILITARY HOME, KAN.—Bids will be received until Oct. 22 by Maj. W. W. Martin, Treas., Western Branch, N. H. D. V. S., National Military Home, for furnishing and installing an electric elevator in the General Mess Hall building.

HOPE, KAN.—Bids were opened on Oct. 5 for construction material, including poles, wires, transformers, etc., and switchboard complete, with instruments and regulators, from plans of D. L. Stromquist, Herrington, Kan. Contracts have been awarded as follows: To WESTINGHOUSE ELECTRIC CO., for switchboard instruments and street lighting transformers, and to the WESTERN ELECTRIC CO., for construction material, at $6,400.

HUTCHINSON, KAN.—The City Council has granted to the United Water, Gas & Electric Co. J. F. Springfield, Mgr., Hutchinson, a franchise to furnish electric arc lights in the streets of South Hutchinson.

SEWARD, NEB.—Bids will be received by the Village Clerk until Oct. 28 for furnishing material and installing an electric light and water-works plant. Estimated cost, $7,000. Martz Bros., Seward, are Engrs.

DREXEL, MO.—A. J. Harbison is preparing plans for the installation of an electric light plant to furnish electricity for lighting his property. The plant will also have sufficient output to supply electricity for lighting the business section of the town.

ST. LOUIS, MO.—The Union Electric Light & Power Co. has awarded contract to the GENERAL ELECTRIC CO., Schenectady, N. Y., for 16 8-series mercury arc rectifiers for use in connection with direct-current arc lamps each outfit consisting of panel, two tubes, constant-current transformers, exciting transformer, static discharger and direct-current reactor. Each set will take alternating current from the line at 6,600 volts and 25 cycles and will rectify it to operate 75-68 series luminous arc lamps.

KANSAS CITY, MO.—Plans are being prepared for the construction of a large dam for the Big Niangua Hydro-Electric Co. on the Niangua River, six miles southwest of Linn Creek and about 120 miles from here. The dam will be 160 ft. high, 1,458 ft. long, of stone and concrete construction. Estimated cost of the dam, equipment and transmission line into Kansas City, about $2,500,000. Burns & McDonald, Scarritt Bldg., Kansas City, Mo., are Engrs.; Roland E. Brunner, 914 Commerce Bldg., Kansas City, is interested. Noted on Sept. 21.

COLUMBIA, MO.—Improvements and extensions will be made to the municipal electric light and water-works system. Bonds for $125,000 have been voted. The work in connection with the electric light plant includes the erection of building and boiler plant, changing present arc lamps to magnetite system and rearrangement of the street lighting system; the installation of a 500-KW. high-pressure, steam turbine generating unit and a 250-KW. generating unit.

PARIS, TEX.—The City Council is considering the construction of a combined electric light and water-works plant. The electric plant will have a sufficient output to provide for 300 lamps of 2,000 c.p. and the water-works a daily capacity of 1,000,000 gallons per day. E. H. McCuiston is Mayor.

FORT WORTH, TEX.—The city is considering extensions to the street lighting system. Charles F. Crabtree, Ch. Elecn., has submitted a report calling for 250 additional arc lamps and 800 75-watt tungsten lamps.

SHAWNEE, OKLA.—The Chicago, Rock Island & Pacific Ry. Co., it is reported, is considering the construction of a lighting plant in its shops here. Estimated cost, $75,000. F. E. Hutchinson, Chicago, Ill., is Ch. Elecn.

SALLISAW, OKLA.—See item under Water Supply—Irrigation.

ALAMOGORDO, N. MEX.—The Alamogordo Water Power Co. will install a hydroelectric plant of 800 HP. in Box Canyon, near Highrolls, and will construct transmission lines into the Sacramento Valley for the purpose of furnishing power for irrigating pumping plants and manufacturing concerns.

EVERETT, WASH.—The County Commissioners have awarded the contract for the court house heating and ventilating plant to the ADAMS & MOFFAT HEATING CO., Seattle, at $6,498.

TACOMA, WASH.—We are officially advised that preliminary work only has been done for the development of the hydroelectric properties of the Puget Sound, Chelan & Spokane Ry. Co. The W. K. Palmer Co., 717-720 Dwight Bldg., Kansas City, Mo., is in charge.

SPOKANE, WASH.—The Inland Empire Paper Co. is preparing plans for the construction of a dam across the Spokane River to cost about $350,000. Work on the dam will commence at once. W. A. Brazeau is Mgr.

TRINIDAD, WASH.—The Entait Light & Power Co. is having surveys made for its transmission line which will supply electricity for lamps and motors and for irrigation plants on the river. The transmission line will be extended to Ephrata.

PULLMAN, WASH.—E. A. Bryan, Pres. Riveria Co., which owns 300 acres on the Snake River, is making arrangements for the erection of a transmission line from Starbuck to the Riveria tracts.

MONTESANO, WASH.—Bids will be received until noon, Nov. 7, by Fred Rosmond, County Audr., for furnishing and installing electric fixtures and incandescent lamps in the new court-house. Watson Vernon, 447-448 Finch Bldg., Aberdeen, is Arch.

UNION, ORE.—The city has voted bonds for the installation of an electric light plant and for the repair of the water system.

LAKEVIEW, ORE.—The Southern Oregon Water Power Co., Fred H. Oliver, Pres., has made final arrangements to install a plant on Deep Creek, near Adel, to generate 10,000 HP., to be transmitted to Goose Lake, Chewaucan, Warner and Catlow valleys, and to be used for power and light in Lakeview and other towns.

LODI, CAL.—The City Council is considering plans for the installation of a municipal electric light plant.

SANTA CRUZ, CAL.—The City Council has awarded the contract to the COAST COUNTIES LIGHT & POWER CO. for lighting the city. The company agrees to furnish arc lamps for lighting the entire city at $4.50 per arc lamp per month.

SACRAMENTO, CAL.—The San Joaquin Light & Power Co., it is reported, will issue $1,500,000 in capital stock at once for developing and extending its system. Noted on Oct. 13.

MARTINEZ, CAL.—The Richmond Light & Power Co. has been granted a franchise by the Board of County Supervisors to erect transmission lines along the public highways of the county.

SPRINGVILLE (Oxnard post-office), CAL.—The Holley Electric Ry. Co. will erect a power plant here. Work on construction will begin soon.

LONG BEACH, CAL.—The Southern California Edison Co. has awarded contract to the GENERAL ELECTRIC CO., Schenectady, N. Y., for a large switchboard to control one 15,000-KVA., 11,000-volt turbo-generator; three 2,000-KW. local feeders; two 11,000-35,000 to 70,000-volt, 6,000-KW. step-up transformers; two 35,000-volt and two 70,000-volt outgoing lines.

LOS ANGELES, CAL.—The Southern California Gas Co. has been incorporated at Los Angeles for $10,000,000. The directors are: E. N. Kemp, A. C. Johnson, E. R. Davis, H. P. Baumgartner, and C. Forman.

LUCILE, IDAHO.—Walter Hovey Hill, Consult. Engr. for the United Placer Mines Co., which owns diggings at Lucile, states that the company is planning for the installation of a hydro-electric plant with a capacity of 5,000 HP.

PRINCE ALBERT, SASK.—C. H. Mitchell, C. E., Toronto, Ont., is preparing plans for the development here for the city of 10,000 HP. Estimated cost, $1,000,000.

CULIACAN (Sinaloa), MEX.—The surveys, estimates and other preliminary arrangements towards the establishment upon the Pacific coast of Mexico of a large electric power enterprise have been made. The Mayo River Power & Land Co., Denver, Colo., is promoting the project. According to an announcement made by the government authorities of the states of Sonora and Sinaloa and the territory of Tepic, the company has succeeded in financing the enterprise in the United States, and contracts for the construction work will soon be let. The plans, which have been adopted, call for the building of three large dams and the installation of that number of hydroelectric plants, to have an aggregate capacity of 300,000 HP. The transmission lines will cover all of the Pacific slope territory of Mexico, extending from Guaymas on the north to Tepic on the south, about 700 miles. A number of lines will be built into the mining districts and to the towns and cities, involving the construction of about 1,200 miles of power transmission lines, it is stated. Tentative contracts have been entered into by the company with 15 towns and cities for supplying light and power. The company has also contracted for supplying electric power to operate the trains on a portion of the Southern Pacific R. R. of Mexico. It is planned to connect the cities of Guaymas, Culiacan, Mazatlan and Tepic with the hydroelectric plants as soon as possible. The concessions which the Mayo River Power & Land Co. has obtained from the state and federal governments give it the exclusive power rights on the Mayo, the Humaya and the Santiago Rivers. One dam and hydroelectric plant will be constructed upon each of these streams. The surveys that have been made for the proposed dam across the Mayo River in the state of Sonora call for a structure 170 ft. high, 260 ft. long at the top, forming a reservoir of a capacity of [illegible],280,000,000 cu. ft. of water. The dam across the Humaya River will be 223 ft. high, 708 ft. long at the top, and will form a reservoir of a capacity of 11,384,500,000 cu. ft. of water. The dam across the Santiago River will be 215 ft. high, 145 ft. long at the top, and will form a reservoir of a capacity of 9,360,000,000 cu. ft. of water. Estimated cost, about $6,000,000 gold.

CAPULA (Hidalgo), MEX.—The Mexican Light & Power Co. will extend its transmission line from Pachuca to Capula in order to furnish power for the mines and mill of the La Cruz Mining Co. The latter company will install a complete electrical equipment in order to be ready to take the power as soon as the extension of the transmission line reaches here.

BRIDGES.

(** Denotes that this work is advertised in Engineering News.*)

ALBANY, N. Y.—Plans are being prepared by Frank M. Williams, State Engr. and Surv., for the construction of the new iron bridge over the Erie Canal in South Washington St., Rome.

ATLANTIC CITY, N. J.—The contract has been awarded to the NELSON-MEREDITH CO., of Chambersburg, Pa., for the erection of three concrete bridges and the erection of a concrete retaining wall. The bridges are to cost $16,900, $10,150 and $15,200.

*LAYTON, N. J.—Bids will be received at the hotel in the village of Layton, Sussex County, N. J., until 2.30 p. m., Oct. 28, for the erection of an iron bridge in Layton.

PHILADELPHIA, PA.—The contract has been awarded to the AMERICAN PAVING & CONSTRUCTION CO., 211 South 9th St., Philadelphia, Pa., for the painting of bridges in various streets.

WILLIAMSPORT, PA.—Bids will be received by the Lycoming County Commissioners until noon, Oct. 27, for the construction of a steel girder bridge over the Bear Creek here.

ALLENTOWN, PA.—Bids will be received by the Bd. of Comrs. of Lehigh County until 1:30 p. m., Oct. 24, for the construction of a steel and concrete bridge in Center Valley, Upper Saucon Township. Plans may be obtained at the office of Robert S. Rathbun, Engr.

CENTER VALLEY, PA.—Bids will be received by H. W. Bloss, Chn. Bd. Co. Comrs., Allentown, until Oct. 24, for constructing the piers and superstructure of a 3-span concrete-encased, steel-girder bridge over Saucon Creek.

PLEASANT, PA.—Bids will be received at the office of John D. Hitchman, Controller, until 11 a. m., Oct. 27, for the erection of a reinforced concrete bridge spanning Indian Creek.

GREENBURG, PA.—Bids will be received at the office of John D. Hitchman, County Controller, until 11 a. m., Oct. 27, for the erection of a reinforced-concrete bridge spanning Indian Creek. Plans and specifications on file in the office of the County Commissioners.

SOMERSET, PA.—Bids will be received at the office of the County Commissioners until noon, Oct. 26, for the construction of several bridges. Plans and specifications on file at the office of the County Commissioners.

BALTIMORE, MD.—Alexander Shand, Ch. Engr., Pennsylvania R. R. Co., Philadelphia, Pa., is preparing plans and specifications for the proposed viaduct on Lafayette Ave., between Pulaski St. and Smallwood St.

EASTON, MD.—The City Council has retained Clyde Potts, 30 Church St., New York, to design sewers and sewage disposal works.

BUCKINGHAM, VA.—Bids will be received at the clerk's office, Buckingham Courthouse, Va., until 12 m., Oct. 25, for the construction of a steel bridge over Whispering Creek.

CUMBERLAND, VA.—Bids will be received at the Clerk's office, Cumberland, Va., until 12 m., Oct. 26, for the construction of a bridge over the Willis River. Plans at office of W. A. Childrey & Co. P. St. J. Wilson is State Highway Comr.

INDEPENDENCE, VA.—Bids will be received until 1 p. m., Oct. 27, at Clerk's office, Independence, Va., for the construction of a bridge over Elk Creek. Plans at office of W. A. Childrey & Co.

TUSCALOOSA, ALA.—The Tuscaloosa Mineral R. R., Woolacy Frinvell, Engr., will construct two or three steel bridges and eight trestles on proposed line from Brookwood.

NASHVILLE, TENN.—The bridge at Hyde Ferry, on the Cumberland River, will be repaired by the Davidson County Commissioners at a cost of $33,000.

LOUISVILLE, KY.—The Louisville & Nashville R. R. Co. will construct a 2-mile trestle at Bay St. Louis, Mississippi. E. E. Kuesstimer, Louisville, Ky., is Bridge Engr.

LOUISVILLE, KY.—The Kentucky & Indiana Bridge Co. is contemplating the erection of a $2,000,000 bridge over the Ohio River at that point.

INDIANAPOLIS, IND.—The Commissioners of Marion County will receive bids until 10 a. m., Nov. 11, for the construction of a bridge over Fall Creek in Washington Township. Albert Salim is County Audr.

NOBLESVILLE, IND.—The Commissioners of Hamilton County have awarded contract for the construction of a bridge over Fall Creek to JOHN W. SCOTT, Anderson, at $8,484.

CHICAGO, ILL.—Thomas G. Phifeldt, Bridge Engr., is preparing plans for the construction of the Lake St. bridge. Estimated cost, $360,000.

GALENA, ILL.—The Chicago, Burlington & Quincy R. R. will build a double-track bridge across the Galena River at Galena Junction. L. J. Hotchkiss is Asst. Engr. of Bridges, Chicago, Ill.

MARINETTA, WIS.—The contract has been awarded to YOUNG BROS, of this city, for the erection of a double-track bridge for the Chicago & Northwestern Ry., at Ford River.

NORTHTOWN JUNCTION, MINN.—The Northern Pacific Ry. will construct a steel bridge here. The contract for the construction of the substructure has been awarded to LIBBY & NELSON, 460 Temple Court, Minneapolis, Minn., at $10,000. Bids will be received in the spring for the superstructure. The cost is estimated at $35,000. W. L. Darling, St. Paul, Minn., is Ch. Engr.

YANKTON, S. DAK.—The contract has been awarded the HENNEPIN BRIDGE CO., Minneapolis, for the construction of a steel bridge across the James River. It involves $9,437.

ST. LOUIS, MO.—The general plans have been approved by the Bd. of Pub. Improvements for the construction of a viaduct over the railroad tracks at Compton Ave. The structure will be of concrete and steel and cost about $400,000.

ARROW ROCK, MO.—A bridge will be constructed across the Missouri River by the St. Louis-Kansas City Electric Ry., 1015 Commerce Bldg., Kansas City.

TEXARKANA, ARK.—The construction of a $200,000 viaduct is contemplated to connect the city proper with Carmichael Hill, spanning the railway yards at the Oak St. crossing.

CLINTON, ARK.—The Van Buren County Levying Court appropriated $6,000 for the erection of a bridge over North Fork of the Little Red River.

TRINITY, TEX.—A 60-ft. girder bridge on the proposed extension from Trinity to Weldon, Tex., will be erected by the Beaumont & Great Northern Ry. R. G. Duff, Gen. Mgr., Houston, Tex.

DALLAS, TEX.—Bids were received as follows for the construction of the Dallas-Oak Cliff Viaduct: American Construction Co., Houston, Tex., $442,411; CORRIGAN, LEE & HALPIN, Kansas City, Mo., $445,000 (awarded contract); MacArthur Bros., Pine St., New York, $473,000; Wm. P. Carmichatel Co., St. Louis, Mo., $498,100; James Stewart & Co., St. Louis, Mo., $540,000; Kahmann & McMurry, Kansas City, Mo., $582,721; Fred A. Jones Co., Houston, Tex., $647,000.

GONZALES, TEX.—The contract has been awarded by the County Comrs. to F. H. ALSBURY & CO., Houston, for the erection of a bridge across the Guadalupe River.

•PUEBLO, COL.—Bids will be received until 4 p. m., Nov. 7, by the City Clk. for removing the present wooden bridge over the Arkansas River, at Union Ave., and erecting a steel structure. The new bridge will be a bow-string truss, 151.3 ft. long, The roadway will be 50 ft. wide, and there will be two sidewalks, 15 ft. wide. The live load must be attained in accordance with Cooper's 1910 specification for Class A-1 bridges 150 ft. in length. D. P. Gaymore is City Engr. Plans and specifications on file at the office of Engineering News, New York.

MERCED, CAL.—Plans have been prepared for the construction of five concrete bridges. Two are to be built in Road Dist. No. 3 and three in Road District No. 1. C. D. Martin is City Engr.

SANTA BARBARA, CAL.—The County Surveyor of Santa Barbara County, is drawing plans for a bridge to be constructed across the Santa Maria River at Guadalupe.

FRESNO, CAL.—The construction of a concrete bridge to span Dry Creek is contemplated. The estimated cost is $6,000. Geo. L. Hoxie is City Engr.

MARTINEZ, CAL.—The erection of two bridges is contemplated. The estimated cost is $5,000.

PASADENA, CAL.—Plans have been approved by the Board of Trade for the construction of a concrete bridge spanning the Arroyo Seco from the foot of Colorado St. to San Rafael Heights. J. S. Van Oevsin is City Engr.

TEMPE, ARIZ.—The Territorial Board of Control has made a provision for a steel bridge across Salt River at Tempe, eight miles east of Phoenix. Another territorial bridge will be built across the Auga Fria River.

LEWISTON, IDAHO.—The contracts have been awarded to the SECURITY BRIDGE CO., Minneapolis, for the construction of two steel bridges.

BUILDINGS.

(• *Denotes that this work is advertised in Engineering News.*)

REVERE, MASS.—Bids will be received by T. W. Gillette, Secy. of the School Com., until Nov. 2, for the erection of a school-house on Malden St. Edward I. Wilson, 101 Tremont St., Boston, is the Arch.

PAWTUCKET, R. I.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has turned over to the BANKERS' SURETY CO., Cleveland, Ohio, the remainder of the contract for the construction of an extension to the post-office at Pawtucket, at $44,660; time, Aug. 1, 1911.

NEW YORK, N. Y.—The contract for erecting an 8-story apartment house at the northwest corner of Montague and Hicks Sts., Brooklyn, for the Casino Mansion Co., 116 Montague St., owner has been awarded to JOHN THATCHER & SON, 60 Park Ave., Brooklyn. W. A. Bering, 32 Broadway, is Arch.

An apartment house, to cost $1,000,000, is to be built at the southeast corner of West End Ave. and 90th St., according to the plans filed with Rudolph P. Miller, Bldg. Supt. The building will be 12 stories high and will have 48 suites of apartments.

Plans were filed recently for the erection of a 12-story brick store and light manufacturing building on the north side of 25th St., 325 ft. west of Sixth Ave., for the John E. Olsen Construction Co. at a cost of $225,000. The building will have a frontage of 75 ft. and a depth of 90 ft., of fireproof construction, with a facade of brick, limestone and terra cotta. Frederick C. Zobel, 114 East 28th St., is the Arch.

Plans have been filed for a 12-story brick loft building to be erected on the south side of 36th St., 365.2 ft. west of Fifth Ave., with a frontage of 49.10 ft. and a depth of 88 ft., for George Gardiner Fry, of Mamaroneck, N. Y., at a cost of $160,000. Edward Kneisel and Dietrich Wortmann are the Archs.

We are officially advised that the general contract for constructing a residence for Charles L. Poor at 33 East 63d St, has been awarded to C. T. WILLS & CO., 286 Fifth Ave. Walker & Gillette, 131 West 40th St., are the Archs.

Jackson & Rosecrans, Archs., 1328 Broadway, are receiving estimates on the general contract for an extension to the 23d St. Y. M. C. A.

The Capitol Investing & Construction Co., R. E. Moses, 45 West 34th St., is receiving estimates on a 3-story apartment house to be erected on the south side of 87th St., 230 ft. east of Fifth Ave. George and Edward Blum, 505 Fifth Ave., are the Archs.

NEW YORK, N. Y.—The Adams Express Co. is having plans prepared for a new building at 34 to 42 Trinity Pl., immediately in the rear of its offices, 59 and 61 Broadway. The site is now occupied by stables owned by the company. The proposed building, which will house the general and executive offices of the company, will extend through to 71 and 79 Greenwich St., having a frontage on the former of 107 ft. and 109 ft. on the latter, with a depth of from 78 to 94 ft. No decision has yet been made as to its height beyond the fact that it will be at least sixteen stories. Its cost, including the land, will be about $2,000,000. George K. Hooper, Consult. Engr. and Arch., 165 Broadway, is preparing the plans.

FRANK G. FERGUSON has taken out a permit for the erection of a 3-story hotel at the corner of Hardenbrook and Shelton Aves., Jamaica, to cost $40,000.

NEW YORK, N. Y.—The following bids were received on Oct. 10, by C. B. J. Snyder, Supt. Bldgs., Dept. of Education, for the general construction, etc. (Contract 2), of the Washington Irving High School on the easterly side of Irving Pl., between 16th and 17th Sts., Boro. of Manhattan: H. C. Stowe Construction Co., $883,000; Pottsford-Dickinson Co., $876,645; Louis Wechaler, $100,000; T. A. Clark & Co., $873,000; J. F. Walsh Construction Co., $857,000; Charles H. Peckworth, 415 Hudson St., $823,514; A. L. Guidone & Co., $893,000; P. J. Brennan, 928,000; JOHN T. BRADY & CO., 103 Park Ave., $819,840 (awarded contract); John Kennedy & Co., $949,602; Cramp & Co., $945,000; Thomas J. Buckley Construction Co., $839,311; George Hildebrand, $945,957; Thos. McKeown, Inc., $881,472; Charles Willie, $929,000; R. E. Henningham, $872,822; Libnan Contracting Co., $958,000.

NEW YORK, N. Y.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has announced that the time for opening bids for the construction of the post-office, heating and ventilating system, pneumatic door operating system and electric elevator equipment in the post-office building, has been extended from Nov. 3 to 3 p. m. Dec. 1.

NEW YORK, N. Y.—Bids were received as follows, on Oct. 14, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a double set of surgeon's quarters at the U. S. Marine Hospital, Staten Island: William H. Fissell & Co., 1133 Broadway, New York, $28,970; Daniel J. Ryan, foot of 23d St., Brooklyn, $27,554; Westchester Engineering Co., 39 East 42d St., New York, $31,500; Beaver Construction Co., 26 Exchange Pl., New York, $31,143; Bliss & Griffiths, 225 Fifth Ave., New York, $39,384; J. I. Valentine, 302 Broadway, New York, $31,260; Thomas McKeown, Inc., 103 Park Ave., New York, $29,300; William Werner, 657 Vanderbilt Ave., Brooklyn, $26,566; Lawrence J. Rice, 103 Park Ave., New York, $35,366; George Hildebrand, 38 Park Row, New York, $31,367; Charles Willie, New York, $29,165; Thomas J. Buckey Construction Co., New York, $25,470; John Milnes Co., New York, $32,700.

We are officially advised that the J. F. WALSH CONSTRUCTION CO., 1 Madison Ave., has been awarded the general contract for constructing a 5-story office and store building, 25 × 100 ft., at 2 Sumner Ave., Brooklyn, for the Michigan Condensed Milk Co. Frank H. Bissell, 103 Park Ave., is the Arch.

The same company has the contract to construct a 4-story building, 40 × 30 ft., at the southwest corner of Broadway and 51st St., for the De Dion Bouton Automobile Co. L. Laas is Arch.

The general contract to build an 11-story addition to the store of Oppenheim, Collins & Co., at 33 West 34th St., has been awarded to CHARLES A. COWEN & CO., 1123 Broadway. Buchman & Fox, 11 East 50th St., are the Archs.

MALONE, N. Y.—Bids were received as follows on Oct. 12, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Malone: Ambrose B. Stannard, St. James Bldg., New York, $45,700; The Durolithic Co., 460 Ellicott Sq., Buffalo, N. Y., $50,338; William H. Fissell & Co., 1133 Broadway, New York, $49,700. Time, Dec. 1, 1911.

PERRYSBURG, N. Y.—We are officially advised that the following bids were received on Oct. 8 by Francis G. Ward, Comr. of Public Works, Buffalo, for the erection of the J. N. Adams Memorial Hospital for Incipient Tuberculosis, at Perrysburg: (A) Main buildings, etc.; (b) power-house, etc.; (c) tunnel: C. A. Hager, (a) $149,977, (b) $8,892, (c) $4.75 per ft.; C. H. Everitt, (a) $153,200, (b) $10,649, (c) $6 per ft.; Morris & Allen, Builders Exchange, (a) $158,200, (b) $9,825, (c) $11.10 per ft.; John Lannen, 667 Oak St., (a) $164,911, (b) $11,273, (c) $10 per ft.; Standard Contracting Co., (a) $168,370, (b) $10,988, (c) $13 per ft. Heating, etc., John W. Donforth Co., 70 Ellicott Sq., $10,745; Foster & Glidden Engineering Co., 730 Main St., $10,897; George H. Drake, 220 Lexington Ave., $10,900. Plumbing, etc., Foster & Glidden Engineering Co., $5,816; George H. Drake, $5,950; Barnd & Geiger, 11 East Mohawk St., $6,390. The Foster & Glidden Engineering Co. also submit a proposal to install the plumbing and heating complete for $16,500. Electrical work, etc., Buffalo Electric Co., 17 West Mohawk St., $3,075; F. P. Little Electrical Co., 192 Main St., $3,400. All of the contractors are in Buffalo. John H. Coxhead, 930 Ellicott Sq., Buffalo, is the Arch.

SYRACUSE, N. Y.—Official advices to the effect that bids will be received about Jan. 1 for the general construction of a church building, 112 × 144 ft., at Midland Ave. and Colvin St., for the Church of St. Anthony of Padua, have been received. The foundation contract has been let to JOHN S. BOWLER, Amherst Ave., Syracuse, and work is now under way. Estimated cost, $100,000. Russell & King, Snow Bldg., are the Archs.

•CANANDAIGUA, N. Y.—Bids were received as follows on Oct. 17, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Canandaigua: The Durolithic Co., 460 Ellicott Sq., Buffalo, N. Y., $73,785; King Lumber Co., Charlottesvile, Va., $67,255; William H. Frissell & Co., 1133 Broadway, New York, $68,923; West Chester Engineering Co., 39 East 42d St., New York, $69,945; William Werner, 657 Vanderbilt Ave., Brooklyn, $72,870; E. Hart, Norfolk, Va., $67,500. Time, December 1, 1911.

•EAST ORANGE N. J.—We are officially advised that Charles Willie, submitted the lowest bid, $175,000, for the construction of a high school here. Bids were received on Oct. 13, by the Board of Education. Warren A. Clapp, Secy.

HONESDALE, PA.—McCormick & French, Second National Bank Bldg., Wilkes-Barre, Archs., have been commissioned to prepare plans for two armories, one to be located at Honesdale and the other at Tamaqua. The former will be 65 × 90 ft., with an administration wing, 25 × 47 ft. The wing will be two stories high. The average height of the building will be 30 ft., with a tower, 36 ft. high. It is now under construction. WEELTERS & BIELMAN, of Scranton, are the contractors. Officers', company, locker rooms, ticket office and quartermasters' rooms are provided.

The Tamaqua armory is 35 ft. high and will have a drill shed 63 × 74 ft. and an administration part.

PHILADELPHIA, PA.—Improvements to cost about $50,000 are to be made to the building of the Third National Bank, at the southwest corner of Market St. and South Penn Sq. Baker & Dallet, Archs., 1629 Chestnut St., have been commissioned to prepare the plans, which will include a complete renovation of the old building.

GEORGE F. PAYNE & CO., 401 South Juniper St., has been awarded the contract for a residence, to cost $70,000, for Otto C. Eisenlahr, at 3812 Walnut St. It will have facades of brick and Indiana limestone and will be of French Renaissance style. Horace Trumbauer, Land Title Bldg., is Arch.

H. E. HAVENS, 1314 Arch St., Philadelphia, will erect 40 2-story buildings, 15 × 50 ft. each, on Locust St., east of 60th, to cost $80,000.

W. H. Walker, representing a syndicate, will erect a $300,000 apartment house on the site of the Epiphany Baptist Church, 36th and Chestnut Sts. It will be eight stories high, 100 × 220 ft.

PHILADELPHIA, PA. — W. E. DOTTS & CO., 148 North Second St., have been awarded the contract for the erection of a house-keeping flat, to cost $45,000, at Chelten Ave. and Knox St. It will be a 4-story brick and concrete structure, of Colonial design and 60 × 80 ft. Lyle G. Park is Arch.

HAZLETON, PA.—We are officially advised that the SCOFIELD ENGINEERING CO., Arcade Bldg., Philadelphia, has been retained by the Peoples Savings & Trust Co., of Hazleton, to draw plans and specifications, also supervise the construction of a 3-story and basement warehouse, which is to be constructed in Hazleton. Work will begin immediately.

The same company has also been retained to draw plans and specifications, also supervise the construction of a 3-story and basement warehouse, to be built at Hazleton by the Lattimer Supply & Machinery Co., of Lattimer Mines, Pa.

PALYMRA, PA.—The Philadelphia & Reading R. R. has awarded the contract for the proposed passenger station here to H. F. CILLEY, of Lebanon, Pa. The structure will be stone, brick and stucco, 2½ stories in height, and 75 × 25 ft. It will be built this fall.

PITTSBURG, PA.—Plans are being prepared by Janssen & Abbott, Archs., 223 Fourth Ave., for 26 houses to be built by the Schenley Farms Co., on the north side of Center Ave. and on the east side of the boulevard above Center Ave.

POINT MARION, PA.—The Building Committee of the Boro. of Point Marion, Fayette County, will receive bids until 8 p. m., Oct. 21, for the erection of a municipal building. L. H. Scott, Arch., prepared the plans. S. J. Fleckenstein, is Pres. and Lewis Dieliner is Secy. of Com.

BALTIMORE, MD.—The contract to erect the proposed warehouses for Hochschild, Kohn & Co., at the southeast and southwest corner of Clay St. and Kimmel Alley, has been awarded to MORROW BROS., 218 West Saratoga St. Plans were prepared by Joseph E. Sperry, Calvert Bldg., for buildings 127 × 118 ft., 52.5 × 123 ft., and 60 × 78.6 ft. It will have a slag roof, also steam heat, gas and electric lighting. The cost of the main building is $96,840, and the cost of the annex is $46,640. Each will be six stories high.

The B. F. BENNETT BUILDING CO., 123 South Howard St., Baltimore, has been awarded the contract to erect a corridor to the hospital at Monument St. and Broadway, for the Johns Hopkins Hospital, from plans prepared by Wyatt & Nolting, Keyser Bldg. It will be 24 × 113 ft., of fire brick, with terra cotta trim, electric lighting and tile floors.

WASHINGTON, D. C.—John R. Pope, Arch., 527 Fifth Ave., New York, is preparing plans for a Masonic Temple to be erected in Washington at a cost of approximately $1,000,000.

RICHMOND, VA.—Pollard & Bagby, 1102 East Main St., together with other real estate men of Richmond, plan the erection of a hotel on the site of the old Y. M. C. A., at Sixth and Main Sts., at an estimated cost of $300,000, it is stated.

NATIONAL SOLDIERS' HOME, VA.—Bids will be received by John T. Hume, Treas., Southern Branch, N. H. D. V. S., until 1.30 p. m., Nov. 10, for furnishing the labor and materials for constructing three barracks at National Soldiers' Home.

FORT MYER, VA.—Bids will be received by Capt. Warren W. Whiteside, Constr. Q. M., until 11 a. m., Oct. 22. for the construction of an addition to officers' quarters No. 1, old signal corps post, Fort Myer.

GRIFFIN, GA.—The plans prepared by A. Ten Eyck Brown, James and Forsyth Sts., Atlanta, for a courthouse at Griffin, have been accepted. The contract will be let about Jan. 1. Estimated cost, $75,000.

ATLANTA, GA.—Bids for the 7-story freight house and office building, which the Southern Railway Co. will erect on the west side of Madison Ave., fronting the Mitchell St. viaduct, are now being received and it is expected that the contract will be awarded within 30 days and the construction work be commenced by the first of the year. The building will be 50 × 800 ft. E. L. Cochran is Superv. Bldgs., Atlanta.

TAMPA, FLA.—Bids for the construction of the Tampa Union station will be received until Oct. 25 by H. S. Thomas, Engr., Tampa Union Station Co. J. F. Leithner, Garrell Bldg., Wilmington, N. C., is the Arch. C. H. Hix is Pres.

JACKSON, MISS.—D. H. Burnham & Co., Archs., 9 Jackson Boulevard, Chicago, Ill., are preparing plans for a 10-story bank and office building, 50 × 153 ft., at Jackson, for A. C. Jones. It will be fireproof and built of steel, tile, terra cotta, with steam heating, interior tile work, marble wainscoting, electric elevators, plumbing and ventilation.

JOHNSON CITY, TENN.—A site for the proposed East Tennessee normal school was chosen recently and work will be started at once. J. L. BROOKS and S. M. BEAUMONT are the contractors. A. B. Baumann is the Arch. The school building is 260 × 100 ft., three stories high beside the basement. The dormitory is 220 × 40 ft., and will be fireproof. The floors are to be reinforced concrete. The foundations of the buildings will be concrete, the superstructure of brick and the roofs of tar and gravel. R. L. Jones is Pres. of the Normal School.

CLEVELAND, OHIO.—The Cleveland Telephone Co. will erect a $100,000 7-story brick addition to its office building at Champlain Ave., S. E., and West Third St.

COLUMBUS, OHIO.—D. H. Burnham & Co., 98 Jackson Boulevard, Chicago, Ill., Archs., are preparing plans and specifications for an interurban depot, to be erected at Third and Rich Sts. by the Ohio Electric Co. The plans will be ready for figures soon.

POMEROY, OHIO.—Plans are being prepared by Howard & Merriam, Archs., Capitol Trust Bldg., Columbus, for an armory building to be erected for the Ohio National Guard at Pomeroy.

CHICAGO JUNCTION, OHIO.—See item under Manufacturing Plants.

PORTSMOUTH, OHIO.—Bids will be received by the Board of Education of Portsmouth, until Oct. 27, for the construction of a high school building from revised plans drawn by Albert Pretzinger, Arch., of Dayton.

BRAZIL, IND.—Plans have been completed on which bids will soon be asked by Charles Minshall, of Terre Haute, for the construction of an apartment house in this city. M. Johnson, of Brazil is Arch.

CLINTON, IND.—Dr. J. H. Bogart will soon ask for bids for the construction of a 3-story business block on Blackman St. The building will be of reinforced concrete.

INDIANA HARBOR, IND.—The Trustees of the Methodist Church are preparing to ask for bids for the erection of a church at an estimated cost of $50,000.

LINTON, IND.—The Union Hospital Association is planning to build a county hospital building in Linton. William J. Hamilton, Fred Hastings and D. D. Terhune are Dirs.

INDIANAPOLIS, IND.—Taylor C. Powers will receive bids about Dec. 15 for the erection of a business building on the northwest corner of Michigan and Delaware Sts.

The Spann Building Co., recently incorporated, will build a business block and hotel at the corner of East St. and Massachusetts Ave. Thomas H. Spann is Pres.

MARION, IND.—Plans are being made for the erection of an annex to the Y. M. C. A. building at an estimated cost of $40,000. M. C. Williams is in charge.

DETROIT, MICH.—Joseph E. Mills, 510 Washington Arcade, is preparing plans for a 3-story and basement residence, 47 × 75 ft., for H. H. Swan, 664 Woodward Ave. It will be of cement and stucco, with hardwood finish floors, mosaic tiling and electric fixtures. Cost, $40,000.

G. A. Mueller, 804 Breitmeyer Bldg., has let the contract for structural steel and iron to the DAIGLE IRON WORKS, Congress and Fort Sts., for the 2-story and basement office building, for the Glass Enameled Package Co., Henry C. Wiedeman, Secy., 958 East Grand Boulevard.

The Casino Co., Caille & Kunshi, Props., 34 Monroe Ave., are receiving competitive sketches from architects, for a 3-story and basement fireproof theater. The building is to be of brick and steel, and will be heated by steam and have a seating capacity of 1,400. Cost, $100,000.

Albert Kahn and E. Wilby, Trussed Concrete Bldg., have let the following contracts for the 2-story and basement brick office building, 60 × 50 ft., for the Anderson Forge Co., W. R. Anderson, Mgr., 21st and St. Anbin Sts.: Masonry to STOKER & WITTINGHAM, Detroit; carpentry to F. M PAULI, Detroit; hot water heating to JACOB ZERGA, Larned St., Detroit.

DETROIT, MICH.—John Scott & Co., Ford Bldg., have awarded the general contract for the $60,000 addition to the Detroit Club, G. T. Moody, Pres., care of Newcomb, Endicott Co., to WILLIAM WRIGHT CO., 110 Fort St., W., Detroit.

Edward F. Stevens, Arch., 9 Park Pl., Boston, Mass., and Malcomson & Higginbotham Associate Archs., Moffat Bldg., Detroit, C. W. Williams, 9 Park Pl., Boston, have let the following contracts for the proposed 4-story and basement addition to Grace Hospital, 100 × 43, 43 × 27 ft. W. L. Bancock, Supt., care of Grace Hospital, Detroit: General contract, A. A. ALBRECHT, Penobscot Bldg., Detroit; carpentry, NARCUS & CO., 774 Russell St., Detroit; steam heating to ISAAC COFFIN CO., 52 Susbury St., Boston, Mass. The hospital is to cost $100,000.

MAPLE RAPIDS, MICH.—Fisher Bros., Beaudette Bldg., Pontiac, are preparing plans for a school for the Board of Education of Maple Rapids, O. M. Snyder, Secretary. The building is to be of brick and cement blocks, two stories and basement, 67 × 48 ft., and will be heated by steam.

CHICAGO, ILL.—According to reports, William H. Barry, 205 La Salle St., has purchased from Frank N. Derby the vacant land at the southeast corner of Grand Boulevard and 39th St., fronting 100 ft. on the former and 150 ft. on the latter, for about $35,000, and will construct a 3-story apartment house to contain 24 apartments. Stores will occupy the 39th St. frontage. The building will cost about $100,000.

Holabird & Roche, Archs., 98 Jackson Boulevard, are receiving estimates for a 14-story warehouse, 90 × 200 ft., to cost $600,000, at Lake and Market Sts., to be known as the "Great Lakes Building," for the University of Chicago. It will be of steel, tile, reinforced concrete and brick, with fireproof windows, steam heating, electric elevators and plumbing.

A 14-story fireproof building to cost about $250,000 will be the outcome of the purchase by James L. Regan, 83 Plymouth Pl., and Charles S. Peterson of the 6-story building leasehold which they occupy at 87 to 91 Plymouth Pl., 75 × 100 ft., West front, 50 ft. north of Harrison St., from Franklin Newhall, of Glencoe, for $90,000.

John F. Knudsen, Arch., 131 La Salle St., has awarded the masonry contract to JOHN B. COULOUER, carpentry to NELSON BROS., and plumbing to P. CLASSEN for eight apartments, two stories high, 50 × 110 ft., at Sacramento and Marianna Aves., for Andrew C. Olsen, plasterer. They are to be of brick construction with hardwood finish, and furnace heat.

F. E. Davidson, Arch., 98 Jackson Boulevard, has awarded the masonry contract to E. M. BENT, 188 Madison St.; fireproofing to S. S. COOPER, and structural steel work to VIERLING, McDOWELL & CO., 23d St. and Stewart Ave., for a 5-story furniture warehouse to cost $60,000, at 4819-4829 Evanston Ave., for the North Shore Fireproof Storage Co., 2077 Evanston Ave.

CHICAGO, ILL.—D. H. Burnham & Co., Archs., 98 Jackson Boulevard, have completed plans for a 20-story office building, opposite the Board of Trade Bldg., at Jackson Boulevard and Sherman St., to be called the "Underwriters' Bldg." Max Pam, 217 La Salle St., is interested. The site is 200 × 200 ft. square. The entire project will represent an expenditure of about $6,000,000.

CHICAGO HEIGHTS, ILL.—A contract for the construction of the Sisters' hospital at Chicago Heights has been awarded to the RAHN-JOHNSON CO., of Chicago Heights, at $63,238 for building only. The foundation is already in and other contracts will be let for boiler-house, boilers, electric wiring, elevator, dumb elevator, heating apparatus and plumbing.

ROCK ISLAND, ILL.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 23, for the extension etc., except elevator (including plumbing, gas piping, heating apparatus, electric conduits and wiring system), of the U. S. post-office at Rock Island.

*WINNEBAGO, WIS.—Bids will be received by the State Board of Control, at its office in the Capitol Building, Madison, up to 4 p. m., Nov. 1, for furnishing all the material and labor necessary for the erection and completion of a hospital for the criminal and violent insane at the Northern Hospital for the Insane, at Winnebago, according to the plans and specifications prepared by Foeller & Schober, Archs., of Green Bay, except the plumbing, heating and lighting. Elmer Grimmer is Pres. of Bd.

RACINE, WIS.—Armour & Co. have made application for a permit to erect a 2-story brick and steel storage warehouse on Main St., costing $100,000.

WAUSAU, WIS.—The congregation of St. James' Catholic Church of this city will erect a new church to cost $50,000. The structure will be of brick, stone and steel. Work will not be commenced until spring.

ST. PAUL, MINN.—Bids are being received by Reed & Stem, Archs., Endicott Bldg., for the construction of the superstructure of the 6-story brick and stone, fireproof main telephone exchange which the Northwestern Telephone Exchange Co. will build at Fifth and Cedar Sts. The contract for the foundation and the pile work has been let to the W. J. HOY CONSTRUCTION CO., Metropolitan Bldg., at $9,000. Cost, $75,000.

ST. PAUL, MINN.—The Y. M. C. A. Building Committee has awarded the contract for the general construction of the association's new 5-story pressed brick and cut stone, fireproof building on Fifth St., near Washington St., to CHARLES SKOOGLUN, 816 New York Life Bldg., at $157,640. C. H. Johnston, Capital Bank Bldg., is Arch.

FAIRBURY, NEB.—Bids were received as follows on Oct. 15, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Fairbury: Northern Construction Co., Milwaukee, Wis., $67,700; General Construction Co., Milwaukee, Wis., $62,468; King Lumber Co., Charlottesville, Va., $64,613; D. J. Phipps, Newport News, Va., $59,775; J. H. Wiese, South Omaha, Neb., $63,553; North-Western Construction Co., Wahpeton, N. Dak., $65,000.

GENOA, NEB.—Bids will be received by the Department of the Interior, Office of Indian Affairs, Washington, D. C., until 2 p. m., Nov. 8, for furnishing materials and labor for the erection of employees' quarters and an addition to the brick workshop at the Genoa Indian School.

ABERDEEN, S. DAK.—Patten & Miller, Archs., 140 Dearborn St., Chicago, Ill., have awarded the foundation work contract to the LEPPERT CONSTRUCTION CO., of Aberdeen, for a $125,000 high school at Aberdeen. Estimates for the following will be received after Nov. 1: Masonry, cement and fireproofing, cut stone, ornamental and structural iron work, vault doors, carpentry, lathing and plastering, painting, glazing, sheet metal and tile work, sewers, plumbing and gas fitting, steam heating, ventilating, vacuum cleaning, telephones and electric wiring, program clock, lighting fixtures, decorations, window shades, cabinet fittings, blackboards and metal lockers.

ONIDA, S. DAK.—Bids will be received, we are officially advised, until Jan. 31, by F. S. Barber, County Audr., for the construction of a court-house, from plans prepared by the Black Hills Co., Archs., of Deadwood. The building will be fireproof, 60 × 80 ft., of stone, brick and steel, and will be two stories high, with a basement. The estimated cost of the structure is $80,000 and the equipment $10,000.

*MACON, MO.—Bids were received as follows on Oct. 10 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for the construction of a post-office at Macon: Conners Bros. Co., Lowell, Mass., $58,500; Carl A. Nelson, Kansas City, Mo., $60,000; Hiram Lloyd Building & Construction Co., Odd Fellows' Bldg., St. Louis, Mo., $57,953; M. Yeager & Sons, Danville, Ill., $65,353; King Lumber Co., Charlottesville, Va., $63,770; A. Anderson & Co., Victoria Bldg., St. Louis, $61,450; Northern Construction Co., 421 Milwaukee St., Milwaukee, Wis., $60,000; Lattimer & Benning, Kansas City, Mo., $56,939.

ST. LOUIS, MO.—The Board of Education recently purchased 375 ft. fronting the south side of Gano Ave., between Emily and Florissant Ave., with a depth of 112.8 ft., from Charles G. Miller, through Oreon E. Scott, for $8,575, and plans will be drawn in the near future to erect a $200,000 school building to take the place of the old Bryan Hill School, at John St. and Emily Ave.

HOT SPRINGS, ARK.—H. H. Richards, 134 Van Buren St., Chicago, Ill., is preparing plans for a 6-story hotel building, 105 × 150 ft., to be erected at Hot Springs, for Charles M. Rix. It will be of pressed brick, steel, hollow tile and concrete construction, with hardwood finish, mosaic and tile work, electric elevators, modern plumbing and steam heating.

EL PASO, TEX.—Plans are being prepared by Heller & Wilson, C. E., First National Bank Bldg., San Francisco, Cal., and Bliss & Faville, Archs., Balboa Bldg., San Francisco, for a 9-story hotel of reinforced concrete at El Paso. Walter D. O'Brien, First National Bank Bldg., San Francisco, is promoting the project. Estimated cost, $600,000.

CHEHALIS, WASH.—Bids will be received until 8 p. m., Oct. 22, for the construction of two school houses in School District No. 206, according to plans and specifications on file with E. A. Dunn, Dis. Clk. The bidders are to furnish both material and work.

ELLENSBURG, WASH.—The Pacific Brewing Co., of Tacoma, has purchased two lots at Fourth and Water Sts., Ellensburg, for the purpose of erecting a hotel building to cost from $75,000 to $80,000.

SPOKANE, WASH.—The Pacific Telephone & Telegraph Co. is having plans drawn for a 14-story steel and concrete building to cost $500,000. Albert Held, Arch., of Spokane, will be in charge of the local work. Seven stories will be built at once at cost of $200,000 and additional stories will be built later. About $125,000 worth of machinery will be installed. Building is to be ready for occupancy by April next.

SOAP LAKE, WASH.—Eastern capitalists have purchased land at Soap Lake, Grant County, and will erect a sanitarium, costing about $75,000. Olmstead Bros., Landscape Archs., have been engaged to plan the grounds.

SEATTLE, WASH.—William D. Van Siclen, Arch., New York Block, Seattle, has let the contract for electric work in the $65,000 apartment house to be erected at Pine and Terry Sts., for M. J. Strong to P. M. GROSS & CO.

PORTLAND, ORE.—The contract for building a warehouse at East Seventh and Hancock Sts. for W. H. McMonies & Co. has been awarded to A. S. WINTERS & CO. This structure will cover a quarter block, 100 × 100 ft., and will be three stories high with a full basement. J. I. Wrenn, Board of Trade Bldg., is Arch. It will have reinforced concrete walls and the interior construction will be heavy mill. The cost will be about $50,000.

Plans for the proposed parish building for the First Presbyterian Church were filed with the Building Inspector by Doyle & Patterson, Archs., Worcester Bldg. Plans call for a 4-story stone building, 60 × 100 ft., to contain a Sunday School auditorium and class rooms. The cost is estimated at $75,000.

Plans are being prepared by R. N. Hockenberg, Arch., Washington Bldg., for a 4-story flat building to be erected on East 16th St., between Broadway and Schuyler St. for P. Schuele. Bids for the general contract will be called for soon.

PASADENA, CAL.—Plans are being prepared by Frank H. Peters, Arch., for the erection of about 32 residences on Villa Court for J. Frank Bomen, at an approximate cost of $80,000.

SACRAMENTO, CAL.—The Trustees of the Masonic Temple Association will receive bids some time in January next for the erection of a Masonic Temple. The site has not been chosen as yet, but at a meeting to be held the first week of December, definite plans will be made. Estimated cost, $250,000.

SAN FRANCISCO, CAL.—Bids were received as follows on Oct. 10, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for painting in the San Francisco post-office: Isidore Kissel, 1538 Polk St., San Francisco, $38,625; Dise & Machetto, San Francisco, $27,500; J. Llewellyn Co., Monadnock Bldg., San Francisco, $26,500; Murray Gibbon, Philadelphia, $59,094.

Williamson & Winterburn, Archs., have prepared plans for a 4-story brick apartment house to be erected on the south line of Post St., 137.6 ft. east of Leavenworth, for Henry Black. The building will contain 38 apartments.

SAN FRANCISCO, CAL.—Bert Schlesinger, Attorney, Claus Spreckels Bld., has purchased property at the southeast corner of Broadway and Sansome St., 49 × 50 ft., on which will be erected a 4-story and basement building to cost about $50,000.

The Liverpool, London & Globe Insurance Co. plans the erection of a building at California and Leidesdorff Sts. It will be of Class A steel frame construction and will cost between $150,000 and $200,000, according to reports.

WHITTIER, CAL.—The City Trustees are planning the erection of a new City Hall to cost $40,000, it is stated. Fred W. Turner is City Mgr.

The following bids were received recently by the Trustees of the Board of Education for the construction of a high school: Dawson & Daniels, $40,995; J. F. Atkinson, $45,470; Richards Neustadt Construction Co., $38,318; G. Hanson & Son, $50,000; Alta Planing Mill Co., $49,950; Barton & Squires, $45,966; D. F. Couplin, $47,926, and E. M. Wheatland, $43,000. The three lowest bids were retained.

RENO, NEV.—The contract for constructing the proposed Y. M. C. A. building at Reno, has been let to WARD BROS. & CALDER, at $53,532. The structure will be on First St., between the Majestic Theater and the post-office building. It will be 60 × 138 ft. and three stories high, of pressed brick and terra cotta.

QUEBEC, QUE.—George E. Tanguay, Arch., 2 Abraham Hill, has completed the plans for the proposed union depot here, it is stated.

MONTREAL, QUE.—Bids will be received until Oct. 24, by R. C. Desrochers, Secy., Dept. of Public Works, Ottawa, Ont., for an addition to the post-office at St. Louis de Mile End, near Montreal. Plans are at the office of H. M. Lymburner, Supt. Pub. Wks., Montreal.

GRAND FORKS, B. C.—Bids will be received until Oct. 25, by F. C. Gamble, Public Works Engr., Victoria, for the erection of a brick and stone court house at Grand Forks.

VANCOUVER, B. C.—J. L. SKENE, Contractor, has secured the contract from the Canadian Pacific Ry. Co. for the 6-story addition to the Hotel Vancouver. The construction will be commenced immediately.

WINNIPEG, MAN.—Plans are being prepared at the head office in Montreal for an hotel to be erected here for the Grand Trunk Pacific R. R., to cost over $1,000,000. Work will be started early next spring. Address Edson J. Chamberlain, Gen. Mgr.

REGINA, SASK.—The plans of Storey & Van Egmond, P. O. Box 1344, for a $40,000 school have been accepted.

CALGARY, ALTA.—The Calgary School Board recently voted to expend $500,000 on three new schools, an addition to the High School, and three sites for new schools.

HAVANA, CUBA.—Plans will be received by the Department of Public Works, until 2 p. m., April 15, 1911, for the construction of a presidential palace on the Villaneuva station plot in Havana. Detailed information will be in possession of the Cuban legation at Washington, to which all interested should apply.

WATER SUPPLY—IRRIGATION

(*Denotes that this work is advertised in *Engineering News*.)

LYNN, MASS.—George W. [illegible]er, 150 Nassau St., New York, has completed plans for the construction of the filtration plant, with a capacity of 12,00[illegible] gallons per 24 hours. Estimated cost, [illegible] engineering services, $225,000.

MEDWAY, MASS.—The citizens [illegible] voted to issue $95,000 of bonds for the construction of water-works. Address R[illegible] Donnell, Secy. Water Comn.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 26, for furnishing and delivering [illegible] parts for valves and hydrants, Boroughs of Manhattan and the Bronx, and for furnishing and delivering valves, Boro. Brooklyn.

NEW YORK, N. Y.—Bids will be received by Henry S. Thompson, Comr. Water Supply, Gas and Electricity, until 2 p. m., Oct. 27, for furnishing and delivering miscellaneous supplies, Boroughs of Manhattan, The Bronx and Richmond.

BENTON, PA.—The Borough Council has decided to construct a municipal water-works system.

NEW YORK, N. Y.—Bids will be received by the Commissioner of Water Supply, Gas and Electricity until 2 p. m., Nov. 2, for furnishing, delivering and laying water mains and appurtenances in various streets in Borough Park, Lefferts Park, Mapleton and Coney Island districts, Boro. Brooklyn; and for furnishing and delivering c.-i. pipe, special castings and valve-box castings.

COXSACKIE, N. Y.—We are officially advised that surveys have been completed to lay 2,300 ft. of water pipe.

*ATLANTIC CITY, N. J.—Bids will be received by the Board of Water Commissioners until 2.30 p. m., Nov. 1, for one horizontal single-cylinder non-condensing Corliss or Lentz valve engine, in accordance with specifications on file in the office of the Water Department. L. Van Gilder is Engr. and Supt.

SOUTH FORK, PA.—We are officially advised that the South Fork Water Co. has employed Chester & Fleming, Consult. Engrs., Pittsburg, to prepare plans for the installation of a filter plant. This company supplies South Fork and adjacent territory. The filter plant will be of the mechanical type, and will have a capacity of 1,000,000 gallons.

FREDERICK, MD.—The city is considering the construction of reservoir with a capacity of 8,000,000 to 10,000,000 gallons. George Edward Schell is Mayor.

BRUNSWICK, MD.—The Mayor and City Council will construct a concrete reservoir to have a capacity of 100,000 gallons. When completed an auxiliary pump will be installed to pump water from reservoir to elevated tank on Wenners Hill. John D. MILLS has contract for excavation and has begun work.

PARKERSBURG, W. VA.—Contract was awarded to LLOYD E. SMITH by the City Council on Oct. 12 for laying five 18-in. c.-i. water mains to connect the city service system with the new pumping station which is to be erected, at $5,324.

SUMMERSVILLE, W. VA.—A charter has been granted to the city for the erection and maintenance of a water system for municipal supply.

GREER, S. C.—The city is considering the construction of a water-works system.

KIRKWOOD (Atlanta post-office), GA.—The city has voted $60,000 of bonds for drilling an artesian well and laying water and sewer mains. The water mains will be from 6 to 10 ins. in diameter and sewer mains from 6 to 18 ins.

JACKSONVILLE, FLA.—Bids were opened on Oct. 4 by the Trustees of Water-Works and Improvement Bonds for furnishing material and constructing a 3,000,000 gallon covered reinforced concrete reservoir, as follows; Bryan & Co., Jacksonville, $62,137 (on own plans), $53,400; LOGAN CONCRETE & ENGINEERING CO., Jacksonville, $57,500 (awarded contract); J. D. McGee, Greenville, S. C., $54,850; F. W. Long & Co., Jacksonville, $74,450; Municipal Engineering & Construction Co., Chattanooga, Tenn., $59,476; W. T. Cotter, Jacksonville, $62,500. R. N. Ellis is Supt.

BOAZ, ALA.—The city is having plans prepared by J. B. McCrary & Co., Atlanta, Ga., for water-works, capacity 750,000 gallons, and for a steel tank on a 75-ft. trestle, capacity 75,000 gallons. The reservoir will be 40 × 10 ft. Bids will be opened about March 1.

BIRMINGHAM, ALA.—The Special Committee appointed to examine North Birmingham water and light plants has recommended improvements to include double pumping and electric machinery. Estimated cost, $38,575.

JACKSON, MISS.—The city has decided to construct a water plant. Two concrete reservoirs will be built, 100 × [illegible] ft., and 100 × 150 ft. Estimated cost, [illegible].

JENA, LA.—The La Salle Parish Police Jury, Henry E. Hardtner, Pres., has awarded contract to C. W. STEWART for constructing water-works and sewer systems for the court-house and jail.

BOGALUSA, LA.—The Bogalusa Public Service Corporation has been incorporated with $500,000 capital stock by C. W. Goodyear, Jr., N. G. Pearsall, J. [illegible] Breeden and others to construct and operate water-works, an electric light plant and a sewer system, etc.

MONROE, LA.—The City Council is considering the construction of two additional concrete water reservoirs, to be used as settling basins and a new system of standard c.-i. water mains.

ATHENS, TENN.—The Ingleside Water Co. has engaged Walter G. Kirkpatrick, Jackson, Miss., to submit a report on a water-works system to have a capacity of 1,500,000 gallons.

CHATTANOOGA, TENN.—We are offically advised that Walter G. Kirkpatrick, Jackson, Miss., has completed and filed with the Water-Works Commission, H. F. Van Duzen, Chn., plans for a new municipal system of water-works, comprising intake from Tennessee River, five miles above city; electrically driven centrifugal intake pumps, 32,-000,000 gallons capacity, delivering water to filtration plant of 18,000,000 gallons capacity, and steam pumping plant in the city; 38,-000,000-gallon storage reservoir; distribution system with 124 miles of mains; four sub-stations with electrically-driven pumps, each delivering water into a steel storage tank, for four high-level districts. Estimated cost of plant, $1,522,220. As this sum exceeds the authorized bond issue construction has been deferred.

NEW CARLISLE, OHIO.—The citizens on Sept. 27 voted to issue bonds for the construction of water-works. J. E. Johnson is Village Clk.

NEWARK, OHIO.—The Director of Public Service will receive bids until noon, Oct. 28, for 131.6 tons Class C c.-i. water pipe, 275 tons special castings, two 16-in. gate valves, laying 1,022 lin. ft. of 16-in., 1,500 lin. ft. 10-in., 444 lin. ft. 8-in. pipe, 17,796 lin. ft. 6-in. pipe setting two 16-in. valves, 48 6-in. valves, two 10-in. valves, 28 hydrants. C. H. Wells is City Engr.

WOOSTER, OHIO.—The City Council has passed a resolution providing for issuing $35,000 of bonds for installing a new water supply system.

SHREVE, OHIO.—Bonds for $9,000 for the extension of water-works have been sold.

PORTSMOUTH, OHIO.—We are officially advised that the citizens will vote on Nov. 8 on issuing $300,000 of bonds for the construction of water-works. W. N. Gobleman is City Audr. Noted on Oct. 6.

CLYDE, OHIO.—Bids will be received by the Board of Trustees of Public Affairs at the office of H. M. Bacon, until noon, Oct. 25, for the construction of a water line of 10-in. iron pipe in Birdseye St., and extending the entire length thereof and a water line of 8-in. iron pipe in Gibbons Ave., connecting therewith with all the necessary tees, sleeves, valves, boxes and hydrants.

CLEVELAND, OHIO.—Bids will be received by A. B. Lea, Dir. Pub. Ser., until Oct. 20, for furnishing and delivering all fire hydrants that may be required by the Water Department of the city.

WEST CARROLLTON, OHIO.—Plans are being prepared for enlarging and improving the water-works, to include a new pumping station and a concrete reservoir.

NEW CARLISLE, OHIO.—The citizens have voted $20,000 of bonds for the construction of a water-works system.

COSHOCTON, OHIO.—The City Council has adopted resolutions declaring it necessary to improve water-works system by installing a hydraulic pump and making other improvements.

WAUKEGAN, ILL.—Bids will be received until Oct. 20 by the Board of Local Improvements for water supply pipes in First St. and Maple Ave.

BEECHER, ILL.—Bids will be received by W. F. Myrick, Secy. Bd. Local Improvements, until 10 a. m., Oct. 22, for laying 5,770 ft. of 8-in. and 10,800 ft. of 6-in. c.-i. water mains, with necessary settings and castings. J. E. Pickens is Engr., Kankakee, Ill.

SPRINGFIELD, ILL.—Bids were opened on Sept. 28 by Frank R. Simmons, City Controller, for two 400-HP. steam boilers to be installed at pumping station of water-works. The contract has been awarded to the HEINE SAFETY BOILER CO., St. Louis, Mo., at $7,450.

SYMERTON, ILL.—The Village Trustees are considering the construction of water-works.

McLEANSBORO, ILL.—We are officially advised that the City Council will receive bids at once for a reservoir and water-works system to cost not more than $16,000. George C. Harvey, Mt. Carmel, Ill., is Engr. Noted on Oct. 6.

•PEORIA, ILL.—Bids will be received by the Supervisors of Des Moines County at Burlington, Iowa, until 2 p. m., Oct. 28, for furnishing and erecting a complete pumping station including the buildings and machinery. The pumping plant will be used for drainage of agricultural lands, will have a capacity of 52 cu. ft. per second against a head of 12 ft., exclusive of friction. It will consist of two centrifugal pumps each direct connected to a tandem compound high-speed steam engine; one water-tube boiler for a working pressure of 150 lbs. per sq. in., equipped with superheater for 125° superheat; induced draft, duplicate feed water system; and open heater. For further information, plans and specifications, address the Harman Engineering Co., 120 Fredonia Ave., Peoria.

WATERLOO WIS.—Contract for laying approximately 18,000 lin. ft. of 4, 6, 8 and 10-in. mains, setting five hydrants, valves and valve boxes, from the plans of James H. Thompson, 324 Dearborn St., Chicago, Ill., has been awarded to F. E. KAMINSKI, Watertown, at $7,554. P. E. Peschel is Village Clk.

OCONOMOWOC, WIS.—Bids will be received until Oct. 21 by F. R. Hubbard, Supt. Water and Light Depts., for the extension of water mains, requiring about 3,500 ft. of 8, 6 and 4-in. pipe, all pipes, specials and hydrants to be furnished by the city.

Bids were opened on Oct. 3 for drilling a 16-in. well 800 to 1,000 ft. deep, from plans of W. G. Kirchoffer, Madison. Contract has been awarded to the OHIO DRILLING CO., Massillon, Ohio, at $3,412.

DELAVAN, WIS.—The city has decided to extend the water mains up Wisconsin St.

WALWORTH, WIS.—Bids will be received by the Village Board until 1 p. m., Oct. 27, for the construction of three miles of 8-in. pipe, 28 hydrants, valves, steel standpipe, pump, etc. George Cadogan Morgan, 169 Jackson Boulevard, Chicago, Ill., is Engr.

ANOKA, MINN.—See item under Light and Power Plants.

AUSTIN, MINN.—The Board of Water, Electric, Gas and Power Commissioners has awarded contract to the J. W. TURNER IMPROVEMENT CO., Des Moines, Iowa., at about $40,000, for improvements to the water-works plant. Oscar Claussen is Consult. Engr., St. Paul.

BEAVER CREEK, MINN.—We are officially advised that the storage reservoir to be constructed here for the Great Northern Power Co. to equalize the flow of the St. Louis River for the company's hydroelectric plant, will include the construction of an earth and concrete dam with gates and spillway. No contracts have been awarded and work which will commence in the spring of 1911 may be done by the company's forces. Estimated cost, including land and dam, $105,000. W. N. Ryerson is Gen. Mgr., Duluth. Noted on Oct. 6.

ST. PAUL, MINN.—The Board of Water Commissioners has awarded the contract for the construction of the brick pumping station at Centreville Lake, according to plans of Taylor & Tewes, Archs., to CHARLES KAMPFER & SONS, St. Paul. ROBINSON, CARY & SANDS will install the equipment at a cost of $14,800. L. W. Rundlett is City Engr.

ARMOURDALE, KAN.—The Peet Bros. Mfg. Co., Adams and Osage Sts., Kansas City, Kan., has awarded contract to the URBAN CONSTRUCTION CO., Dwight Bldg., Kansas City, Mo., at $4,000, for a softening basin, at Armourdale.

PEABODY, KAN.—The city will spend about $7,000 for water-works improvements. J. W. Mavity, of Marion, Kan., is Engr.

CHANUTE, KAN.—Bids will be received by W. F. Sams, City Clk., until 5 p. m., Nov. 7, for installing three 3-HP. boilers, laying approximately nine miles of 4 and 16-in. water mains for the water works system.

MILFORD, NEB.—We are officially advised that bids were received by Elisha Courtright, Village Clk., on Oct. 10, for the construction of a system of water-works, comprising building and machinery foundations, well, tower and tank, c.-i. pipe, special castings, valves, hydrants, laying water mains etc. Estimated cost, $13,000. Contract has been awarded to the INTER-MOUNTAIN BRIDGE & CONSTRUCTION CO., Tecumseh, Neb. Martz Bros. are Engrs., Seward, Neb.

BENKELMAN, NEB.—Preliminary surveys have been made by F. A. Roland, C. E., McCook, Neb., and H. E. Athey, Sur., Wanneta, Neb., for a reservoir of a capacity of about 2,500 acre-ft. with a 50-ft. dam located about 2½ miles northwest of Parks, Neb., on Rock Creek. The project is to provide storage for irrigation by pumping and to furnish power by means of a turbine wheel to generate electric current which will be transmitted to Benkleman and there used to light the town and for power to operate the pump for municipal water supply. W. R. McKnight, Benkelman, is interested.

NORTH PLATTE, WYO.—The Secretary of the Interior, Washington, D. C., has awarded contract to CHARLES F. ELMES ENGINEERING WORKS, 50 Morgan St., Chicago, Ill., for furnishing c.-i. pipe for the Pathfinder reservoir, North Platte irrigation project, at $6,500.

SANDERS, MONT.—The Henry Gerharz Engineering Co., Billings, has awarded contract to ROBINSON & CO., of Forsyth, Mont., for the work on the Yellowstone Irrigation District, at $116,378. The work consists of enlarging the Sanders Canal, involving the excavation and placing of 499,-700 yds. of earth, and constructing a 340-ft. tunnel and culvert. Bids were opened on Oct. 1. List of bidders noted on Oct. 13.

MALTA, MONT.—Bids will be received at the office of the U. S. Reclamation Service, Malta, until 2 p. m., Oct. 21, for the construction of laterals, sub-laterals and waste water ditches. H. N. Savage is Supervising Engr.

KANSAS CITY, MO.—Contract has been awarded to FARNEY & BAKER, Kansas City, at $90,085, for constructing 8,000 ft. of revetment on east side of Missouri River to prevent water from flowing away from water intake at Quindaro, Kan.

CORPUS CHRISTI, TEX.—The Corpus Christi Water & Irrigation Co., recently organized by W. A. Fitch, of Mercedes, Tex., and others, is considering the construction of a reservoir to cover 700 or 800 acres.

DALLAS, TEX.—The Municipal Commissioners have plans and specifications for the White Rock pumping station. The concrete foundations have been completed. The superstructure will be erected by separate contract. The foundation of all walls and of engine-room will rest upon solid rock, basement 50 x 60 ft., 13 ft. deep, will be provided for two pumping engines. The roof will be supported upon steel trusses and a traveling crane will be installed for handling machinery. Contract has been awarded for one pumping engine to have capacity of 20,-000,000 gallons. J. M. Preston is City Engr.

HOBART, OKLA.—The city will drill six additional wells, install electric pump and motor and lay 1¼ miles of 8-in. piping. Estimated cost, $15,000. O. E. Noble, Hobart is Engr.-in-Charge.

SALLISAW, OKLA.—The city has voted $16,000 of bonds for the construction of water-works and electric-light plant extension.

ALVA, OKLA.—We are officially advised that on Oct. 4 contract was awarded to LUND, KEENAN & McCARTHY, of Blackwell, Okla., for water-works extensions, to cost $5,634.

On Oct. 6 contract was awarded to the CHICAGO BRIDGE & IRON WORKS, 105th and Throop Sts., Chicago, for the labor and material for the construction of a steel reservoir of 300,000 gallons capacity. A. K. Hubbard is City Engr.

DENVER, COLO.—The Colorado-Wyoming Reservoir Co. has been incorporated, it is reported, with a capital of $800,000, to construct reservoirs, canals and ditches to irrigate 150,000 acres of land in Jackson County, near the Colorado-Wyoming boundary line. The plans include the construction of a reservoir to impound 193,000 acre-ft. of water. The charter of the company empowers it to acquire waters from south fork of Roaring Fork River, from Raspberry Creek, the north fork of the Roaring Fork River or Creek, the North Platte River, Lone Pine Creek and the north fork of the North Platte River, together with waters from Lake St. John. The principal ditches of the company will be known as the Independent ditch and the Chautauqua ditch. The Independent ditch will be 34 miles long, and the Chautauqua 16 miles. The incorporators are: Silsbee E. Corson, Frank McLaughlin and S. H. Lord. The offices of the company will be in Denver.

LIMON, COLO.—Bids were opened on Sept. 27 for the construction of water-works from the plans of Burns & McDonnell, Scarritt Bldg., Kansas City, Mo. Contract has been awarded to MARSHALL BROS., of Las Animas, Colo., at about $21,000.

VILLAGROVE, COLO.—We are officially advised that the Kerber Creek Reservoir Co. will probably not do any construction work on the Kerber Creek reservoir before spring. Address J. H. Parsons, Villagrove. Noted on Oct. 6.

FORT BAYARD, N. MEX.—Bids will be received by Capt. J. R. McAndrews, Constr. Q. M., U. S. A., until 11 a. m., Oct. 31, for a relocation of the water mains, comprising approximately 470 lin. ft. 6-in., and 110 lin. ft. of 4-in. c.-i. water pipe.

SPOKANE, WASH.—The Water Department, it is reported, has completed plans for laying 31 miles of from 4 to 14-in. water pipe soon.

TACOMA, WASH.—The Council has passed a resolution providing for the construction of water mains in portions of South 64th St., South 62d St., South 66th St., Grove Pl., Hudson St., Ferdinand St., Cheyenne St., South 71st St., Mason Ave. and Stevens St., pipe ranging in size from 6 to 8 ins. Estimated cost, $33,058.

SULTAN, WASH.—The bid of Stunding & Collins, Snohomish, for constructing the municipal water system at $17,000, has been rejected, as above the amount authorized for the work.

UNION ORE.—See item under Light and Power Plants.

•KLAMATH FALLS, ORE.—Bids will be received at the office of the United States Reclamation Service, Portland, Ore., until 2 p. m., Dec. 15, for the construction of the Lost River diversion works, located from six to ten miles southeast of Klamath Falls. The work consists in constructing a concrete diversion dam, culverts, bridges, etc., and involves about 5,500 cu. yds. of concrete and 400,000 cu. yds. of excavation and embankment. For particulars, address the United States Reclamation Service, Washington, D. C., Portland, or Klamath Falls. Jesse E. Wilson is Acting Secy.

SAN DIEGO, CAL.—See item under Streets and Roads.

SANTA BARBARA, CAL.—The WESTERN MACHINERY & FOUNDRY CO. has contract at $6,660 to furnish 500 pile points for reclamation district 98, which is now starting protective work along the Santa Maria River.

MADERA, CAL.—Plans are being prepared for the construction of water-works here.

MONTAGUE, CAL.—The City Trustees are considering the construction of a municipal water-works system.

CORNING, CAL.—The citizens have voted to issue $70,000 of bonds for the construction of a water and sewer system.

YUMA, ARIZ.—Bids were opened on Sept. 30 by the Board of Supervisors of Yuma County for the construction of a concrete reservoir and certain concrete houses on the county poor farm grounds from plans of Ben L. De Corse, of Yuma. The contract has been awarded to CHARLES OLCESTER, Yuma, at $7,324.

TUCSON, ARIZ.—The city will construct a reinforced concrete standpipe of 1,000,000 gallons capacity.

CARLIN, NEV.—A. B. COREY has been awarded the contract for the construction of a large reservoir or ice pond at Carlin, for the Pacific Fruit Express Co., Salt Lake City. The reservoir will cover 27 acres. Other reservoirs are to be built by the company.

•BOISE, IDAHO.—Bids are asked until 9 a. m., Dec. 1, by the U. S. Reclamation Service, Shaw Bldg., Boise, for furnishing 234 lateral headgates for the Boise project, Idaho.

NIAGARA-ON-THE-LAKE, ONT.—The by-law for the extension of the water-works system has been carried.

SEWERS.

BOSTON, MASS.—We are officially advised that the contract has been awarded by L. K. Rourke, Supt. of Streets, to LUKE D. MULLEN, 161 Devonshire St., for the construction of sewers in Martan, Leslie and Wildwood Sts., at $5,168.

WINSTED, CONN.—A system of sewers is contemplated here. The committee appointed are: Winslow Goodwin, chairman; J. H. Whiting, I. E. Manchester, Joseph F. Carey, R. S. Hulbert, George M. Crossman and G. A. Sanford all of Winsted. It is recommended that $5,000 be expended for preliminary engineering work and expert advice. It is thought that a complete system will cost about $110,000.

BUFFALO, N. Y.—Bids will be received by Francis G. Ward until 11 a. m., Oct. 25, for the construction of a 15 and 12-in. sewer in Norris St., between Hertel Ave. and the north end of Norris St.; also a 15 and 12-in. sewer in Mississippi, Elkand and Ohio Sts. Plans on file at the office of the Bureau of Engineering.

BUFFALO, N. Y.—The City Council has ordered the construction of 18, 15, 12 and 10-in. sewer in Albion Pl., between South Side Parkway and Midland St., and in the west side of Midland St., between its northerly end and Abbott Road. Also a 10-in. tile sewer in Alconda Pl., between Midland St. and South Park Ave. Francis G. Ward, Comr. of Public Works, has been directed to advertise for bids.

UTICA, N. Y.—The contract has been awarded by the Board of Contract and Supply to N. D. PETERS & CO. for the construction of a sewer in Tilden Ave.

•ATLANTIC CITY, N. J.—Bids will be received by the City Council until 8 p. m., Nov. 14, for the construction of a storm-water drainage system in various streets.

CAMDEN, N. J.—The contract has been awarded to the CENTRAL CONSTRUCTION CO. for the construction of the storm sewer in Estaugh Ave. and West Main St.

PLAINFIELD, N. J.—The contract has been awarded to JAMES A. CHRISTE, Newark, N. J., for the extension of the sanitary sewer system in the west end of the city.

HARRISBURG, PA.—The contract has been awarded to CHARLES FISHER for the construction of the Park St. sewer at $6,-960.

NEW CASTLE, PA.—The City Clerk has been instructed to advertise for bids for the construction of a sanitary sewer in Clearview Ave. C. H. Mulholland is City Engr.

MOBILE, ALA.—Plans are being prepared for the extension of the water and sewage systems. Wight Smith is Ch. Engr. Bd. Pub. Wks.

BOGALUSA, LA.—See item under Water Supply—Irrigation.

JENA, LA.—About 1,100 ft. of sewer will be constructed by the La Salle Parish Police Jury, Henry E. Hardtner, Pres.

CLYDE, OHIO.—See item under Streets and Roads.

SPRINGFIELD, OHIO.—The City Council has passed a resolution for the construction of sewers in various streets. C. J. Bowlus is Mayor.

CARTHAGE, OHIO.—The construction of a sewer system is being contemplated by the Village Council. The estimated cost is $50,-000.

OBERLIN, OHIO.—The contract has been awarded to BUCKINGHAM, CLARY & ZEIGLER, Montroeville, Ohio, for the construction of a sewer in Hollywood St.

COLUMBUS, OHIO.—The contract which was awarded to the Andrews Asphalt Co., Hamilton, Ohio, for various street improvements has been declared void because of some flaw in the enactment of the ordinance. The work will be readvertized.

LORAIN, OHIO.—The Council has passed ordinances deeming it necessary to proceed with the construction of five sewer improvements in various parts of the city. C. M. Wilson is City Engr.

•BELLEFONTAINE, OHIO.—Bids will be received by the Director of Public Service until noon, Nov. 1 (not Oct. 25, as noted and advertised in our issue of Oct. 13), for the construction of Section 1 and Section 2 of the Sanitary Sewer System. Plans and specifications at the office of Riggs & Sherman Co., Toledo, Ohio, or at the office of C. A. Guskeep, City Engr.

EVANSVILLE, IND.—The contract has been awarded by the Board of Works to BEN NEWMAN & CO. for the construction of a sewer in Sixth St.

•CARO, MICH.—Bids will be received by the Board of Trustees until 2.30 p. m., Oct. 27, for the construction of 11,000 ft. of sanitary sewer, with the necessary manholes and flush tanks. Plans and specifications at the office of the Engrs., Riggs & Sherman Co., 613 Nasby Bldg., Toledo, Ohio. F. D. Riddle is Pres. and Joe Walton is Clk. of Board.

DETROIT, MICH.—The Common Council of Detroit has directed the Board of Public Works, J. J. Haarer, Comr., 104 City Hall, to advertise for bids for the construction of the following vitrified crock lateral sewers in various streets, avenues and alleys. R. H. McCormick is City Engr.

BARRINGTON, ILL.—The construction of a sewer system is contemplated by the Village Trustees. The estimated cost is $59,290.

ROCKFORD, ILL.—The contract has been awarded to G. MAFFIOLI, Rockford, Ill., for the construction of a sewer in Central Ave., Peach St. and Independence Ave.

MILWAUKEE, WIS.—The City Council has recommended the construction of sewers in various Sts. H. E. Briggs is Comr. Public Wks.

OCONOMOWOC, WIS.—Bids will be received by the Bd. of Public Works until Oct. 21 for the construction of storm sewers, requiring about 1,165 lin. ft. 18, 20 and 24-in. pipe. Clarence Schoenicke is City Clk.

EAGLE GROVE, IOWA.—The contract has been awarded to C. ANDERSON & CO., of Vincent, Iowa, for the construction of sewers to cost about $9,290.

BRAINERD, MINN.—Bids will be received by V. W. Broderick, City Clk., until Oct. 29, for the construction of sewers in Sewer Districts Nos. 4 and 5.

ST. PAUL, MINN.—Bids will be received by the Board of Public Works until 2 p. m., Oct. 20, for the construction of a sewer in Charles St., from Chatsworth St. to Hamline Ave.

PITTSBURG, KAN.—The Board of Commissioners has passed a resolution to construct sewers in various streets. C. B. Hoyt is Mayor.

GRAND ISLAND, NEB.—The contract has been awarded to H. J. CATHROE, Omaha, for constructing sewers at $12,100. The engineers is the Consolidated Engineering Co., Omaha.

PLANO, TEX.—Bonds for $6,000 and public subscription for $11,000 cash are available for the construction of a sewage purification plant and sewer system. Plans have been prepared by F. H. Lancashire, of Dallas, Tex., and the work will start shortly. Gee Hudson is City Secy.

GALVESTON, TEX.—The contract has been awarded to A. G. FALLIGANT for the extension of the 33d St. sewer at $6,555.

CHICKASHA, OKLA.—The contract has been awarded by the City Council to the HAMILTON BROS. CONSTRUCTION CO., Chicago, for the construction of sanitary sewer extensions.

SALIDA, COLO.—The contract has been awarded by the City Council to PETER O'BRIEN, Denver, Colo., for the completion of the main sewer in Scott St., at $53,075.

EDMONDS, WASH.—The construction of a sewer system is contemplated. The cost is estimated at $17,000.

HOQUIAM, WASH.—The Council has passed an ordinance providing for the construction of wooden sewer boxes and making all necessary excavations for same. Plans and specifications on file in office of the City Engr. Z. T. Wilson is City Clk.

PASADENA, CAL.—The contract has been awarded to U. R. NICHCEVITCH, 2824 Seventh Ave., Los Angeles, for the construction of a sewer in Mentor Ave., at $5,283.

LOS ANGELES, CAL.—The City Council has adopted a resolution for the construction of sewers in various streets. A. A. Hubbard is Pres. of the Board Public Works.

STOCKTON, CAL.—Plans have been prepared by the City Engineer for the construction of a concrete outfall sewer, 6 ft. in diameter, in Harrison, Market and Washington Sts. Estimated cost is $194,000.

SANTA ROSA, CAL.—The construction of sewers in various streets is contemplated. N. V. V. Smythe is City Engr.

CORNING, CAL.—See item under Water Supply—Irrigation.

OAKLAND, CAL.—Bids will be received until 11 a. m., Nov. 2, by the Board of Public Works for construction of a sewer in 14th Ave. and Bruce St. J. W. Nelson, Secy.

OAKLAND, CAL.—The contract has been awarded by the Board of Public Works to J. F. GREANEY for the construction of a sewer in Market and Seventh Sts. at $5,550.

*ROSEVILLE, CAL.—Bids will be received by J. H. Stineuian, City Clk., until Nov. 7 for the construction of a complete sewer system.

SAN DIEGO, CAL.—See item under Streets and Roads.

GARBAGE DISPOSAL.

(* *Denotes that this work is advertised in Engineering News.*)

BOSTON, MASS.—J. F. Beedle submitted the only bid to the city on Oct. 17 for the disposal of garbage for a period of ten years. The contract is for all districts of the city, except Charlestown, East Boston and West Roxbury. The bid follows: From Districts 1, 8 and 10, which include the city proper and South Boston, 85½ cts. per ton; from District 4, Brighton, $1.79 per ton; from Districts 9 and 6, which include Dorchester, 85½ cts. per ton, and from District 7, Roxbury, $1.23 per ton. In addition to ashes, garbage, rubbish, etc., there are 12,000 tons of street sweepings a year. Under the proposal the city must collect the garbage, ashes, etc., and deliver the same at one of four stations. Total, about $372,195 per year.

NEW YORK, N. Y.—Bids will be received by William H. Edwards, Comr. of Street Cleaning, until noon, Oct. 21, for furnishing materials and rebuilding a portion of the chimney at the Delancey St. incinerator plant of the Department of Street Cleaning, tearing down 65 ft. of wall, lining said chimney throughout and making other necessary repairs to the walls.

ROCHESTER, N. Y.—The city will have specifications prepared for a refuse incinerating plant.

COLUMBUS, OHIO.—The Council Finance Committee on Oct. 7 approved the ordinance to appropriate $20,000 for the erection of a supplementary plant at the garbage disposal works.

STREETS AND ROADS.

(* *Denotes that this work is advertised in Engineering News.*)

PORTSMOUTH, N. H.—Bids will be received by H. C. Hill, State Engr., Concord, until 1 p. m., Oct. 27, for paving with trap rock. Estimated cost, $4,000.

DEERFIELD, MASS.—Bids were received on Oct. 11 by Harold Parker, Chn., Massachusetts Highway Comn., for highway construction in Deerfield, as follows: Jose Morrell, North Attleboro, $8,307; Francis J. Magus, West Newton, $8,655; L. C. Carchia, Boston, $8,686; F. E. Ellis, Melrose, $9,034; G. de Pollito Boston, $9,164; R. F. Hudson, Melrose, $9,494; M. L. Camarco, Lee, $9,674; D. F. Perry, Brattlebero, Vt., $10,235; J. B. Hayes, Greenfield, $11,240.

PROVIDENCE, R. I.—The following bids were received by the Park Commissioners, recently, for improvements on the North Park lands, to include macadam driveways through the park: ALTON A. ALLEN, $15,392 (awarded contract); J. H. Sullivan, of Boston, Mass., $16,365; C. B. Hicks, $22,502; C. N. Menard, $20,187.

BRIDGEPORT, CONN.—The Common Council announced recently that the widening of Congress St. on the north side is to be started soon, at a cost of $62,876. M. F. McKenna is City Engr.

HARTFORD, CONN.—Contracts for state road work, bids for which were opened at the office of the State Highway Commissioner on Oct. 13, have been awarded as follows:

Town of East Granby, First Section, 3,270 lin. ft. gravel-telford road on the Westfield Turnpike, including four 15-in. and one 12-in. tile culverts, to the BOARD OF SELECTMEN of the town, W. W. Viets, Chn., $1 per lin. ft. for gravel, $1.60 for telford, 95 cts. for rubble drain. The only other bidder was William Maloney, West Hartford, Conn., $1 for macadam, $1.75 for telford, $1 for rubble drain. Second Section, 2,700 lin. ft. gravel-telford road, including one 12-in. and one 30-in. tile culverts, on the Tariffville road, to the BOARD OF SELECTMEN, $1.25 per lin. ft. for gravel, $1.70 for telford, 90 cts. for rubble drain. William Maloney, West Hartford, Conn., submitted these figures: $1.81 for gravel, $2.51 for telford, $1 for rubble drain.

Town of Mansfield, 6,475 lin. ft. gravel-telford road, including ten 12-in., ten 15-in., and one 24-in. tile culverts, to TONY LEO, Thompson, Conn., $1.00 per lin. ft. for gravel, $1.76 for telford, 98 cts. per lin. ft. for rubble drain. Other bidders were: A. D. Bridge's Sons Co., Inc., Hazardville, Conn., $1.77, $2.37, $1; A. Brazos & Sons, Middletown, Conn., $2.22, $2.65, 85 cts.; Ahern Bros, Norwich, Conn. $1.55, $2.15, 95 cts.: A. Vito, Thompson, Conn., $1.39, $2.19, $1.10.

Town of Redding 5,575 lin. ft. graded-telford road, including one 10-in., three 18-in., one 12-in., and one 15-in. tile culverts, to H. SANFORD OSBRON and HERBERT S. BARNES, Redding, Conn., $4,000, for the entire grading, with $1 per lin. ft. extra for telford, 90 cts. per lin. ft. for rubble drain. Warner & Sanford, Redding, Conn., the only other bidder, submitted these figures: $4,125, $1.47½, 70 cts.

Town of Stamford, 2,305 lin. ft. macadam-telford road, including one 12-in. tile culvert, to L. F. MERRITT, Stamford, Conn., $2.10 per lin. ft. for macadam, $3 for telford, $1 per lin. ft. for rubble drain. The B. D. Pierce Jr., Co., Bridgeport, Conn., the only other bidder, submitted these figures: $2.83, $3.58 and 80 cts.

Town of Newington, 3,737.7 lin. ft. macadam-telford road on the Hartford and New Haven Turnpike, including one 15-in. tile culvert and one reinforced concrete arch culvert, to THOMAS KEARNEY, Meriden, Conn., $1.62 per lin. ft. for macadam, $2.40 for telford, 85 cts. per lin. ft. for rubble drain. Other bidders were: William Maloney, West Hartford, Conn., $1.76, $2.36 and $1; Sternberg & Cadwell, West Hartford, Conn., $1.97, $2.50 and $1; Roger Kennedy, Middletown, Conn., $1.83, $2.45 and $1.

Town of Weston, 2,600 lin. ft. gravel-telford road on the Weston and Newtown Turnpike, including six 15-in. and one 30-in. tile culverts, to L. F. MERRITT, Stamford, Conn., $2.25 per lin. ft. for gravel, $3.10 for telford, $1.25 per lin. ft. for rubble drain, and $6.50 per cu. yd. for masonry walls.

Town of Voluntown, 2,610 lin. ft. gravel-telford road in the Beach Pond section, to the ELDREDGE CONSTRUCTION CO., Mystic, Conn., $3,915 for the entire gravel work. Other bidders were: A. D. Bridge's Sons Co., Inc., Hazardville, Conn., $2.59 per lin. ft. for gravel, $3.29 for telford; Ahern Bros., Norwich, Conn., $2.75 and $3.40; Edward McKnight, Westerly, R. I., $2.25 and $2.75. Second section, 1,938 lin. ft. macadam-telford road on Main St., including one 12-in. tile culvert, to the ELDREDGE CONSTRUCTION CO., $3,876, for the entire macadam work. Other bidders were: A. D. Bridge's Sons Co., Inc., Hazardville, $2.91 per lin. ft. for macadam, $3.51 for telford; Edward McKnight, Westerly, R. I., $2.10 and $1.95.

NEW YORK, N. Y.—Bids are asked by Alfred E. Steers, Pres., Boro. of Brooklyn, until 11 a. m., Nov. 2, for regulating and repaving with asphalt concrete pavement on a macadam foundation the roadway of East 18th St., from Church Ave. to Beverley Road, together with all work incidental thereto.

Bids will be received until 11 a. m., Oct. 26, by Alfred E. Steers, Pres., Boro. of Brooklyn, for regulating and repaving with asphalt pavement on a concrete foundation the roadways of various streets in Brooklyn.

Cyrus C. Miller, Pres., Boro. of Bronx, will receive bids until 11 a. m., Oct. 27, for regulating, grading, setting curbstones, flagging the sidewalks, etc., on various streets in the Bronx.

It is the intention of the Department of Parks to improve the 79th St., 65th St. and 97th St. roads in Central Park, with asphalt paving, it is reported. Charles B. Stover is Comr. and Pres.

NEWARK, N. Y.—The contract for constructing two miles of curbing on West Miller St., has been awarded to HAGAMAN, MILLER & HAGAMAN, of Rochester, at $10,000.

HARRISONVILLE, N. J.—The contract to build a Government road from Fort Mott to Harrisonville has been awarded to HARRY CLARK, of Delaware City, Del., at $10,000.

VENTNOR CITY (Atlantic City post-office), N. J.—Bids will be received soon for paving Atlantic Ave., from Jackson Ave. to Fredericksburg Ave. Edward R. Donnelly is City Clerk of Atlantic City.

ERIE, PA.—The State Highway Department has awarded the contract to C. T. EASTBURN, of Yardley, for experimental pavement on West Lake Road. Cost, $6,307.

HARRISBURG, PA.—We are officially advised that the following bids were received by W. W. Caldwell, Comr. of the State Highway Dept., on Oct. 13, for paving various streets: The Barber Asphalt Paving Co., $79,853; the Central Construction & Supply Co., $67,099.

McKEES ROCKS, PA.—The contract for grading, curbing and paving of School, Olivia, Robb, Guthrie and Robinson Sts., has been awarded to M. O'HERRON & CO., South First and McKean Sts., Pittsburg. The contract for Gardner and Page Sts. has been let to FRANK BRYAN, 1259 Chartiers St., Pittsburg. The award for 10,000 ft. of cement sidewalk, 2,000 cu. yds. of grading and 500 cu. yds. filling was awarded to W. F. HERSCHBERGER and the contract for the building of a sewer in Robb St. was let to F. MANELLA. Total cost, $25,000.

OAKMONT, PA.—JAMES TOPLEY & CO., of McKeesport, have been given a contract by the Oakmont Boro. Council for approximately 384 cu. yds. of grading, 451 lin. ft. of curb and gutter, and 1,000 sq. yds. of paving. This work will be done on Ooakmont Ave., near College Ave.

KNOXVILLE, PA.—The Boro. Council has let a contract to the THOMAS CRONIN CO., South 17th and Muriel Sts., Pittsburg, for the recurbing and repaving of Bausman St., from Knox Ave. to Brownsville Road.

PITTSBURG, PA.—We are offically advised that bids were received on Oct. 10, and the following contracts awarded for improving (A) the Monongahela River Road, extension No. 1; (B) Butler Road; (C) Brighton Road: (A) RIDGE BROS. CO., 407 Fourth Ave., at $10,486; (B) OTT BROS. CO., 414 Washington Ave., at $21,416; (C) M. O'HERRON CO., South First and McKean Sts., at $5,691, all of Pittsburg. R. J. Cunningham is County Controller.

BROWNSVILLE, PA.—The contract for constructing a portion of the State brick road in this borough has been awarded to WILLIAM C. McCORMICK, of Uniontown, at $7,080.

CUMBERLAND, MD.—George G. Young, Mayor, of Cumberland, awarded the contract to FREDERICK PERRY, of Cumberland, at $9,351, to repave Union, South Center and Harrison Sts.

*PORTSMOUTH, VA.—Bids will be received by P. A. Slater, City Clerk, until noon, Oct. 31, for regulating and paving such streets in the city of Portsmouth, as the Street Committee may determine upon. E. B. Hawks is Chn. of Com. V. O. Cassell, Jr., is City Engr.

PARKERSBURG, W. VA.—The County Court of Wood County has awarded the contract for grading 3,000 ft. of road near Redwood to J. W. CURRY, at 24½ cts. a cu. yd. Other bids submitted were those of Otto Lehman, 36 cts.; Frank Heydenrich, 32 cts., and R. W. Martin, 26 cts.

An ordinance was passed by the City Council on Oct. 12, providing for the paving of Market St., from 13th to 16th Sts., at an estimated cost of $10,000. J. V. Dunbar is City Mgr.

ALEXANDRIA, LA.—The City Board of Aldermen let the contract to GAILEY & CLARK for paving Gould Ave., Jackson Ave., and Beauregard St. The Gould Ave. paving will be of vitrified brick, four blocks, at $2.85 a sq. yd. The remainder of avenue to the city limits will be of gravel, at 95 cts. a yd. Jackson Ave., from Tenth to Bolton, and Beauregard, from Second to Fourth, is to be vitrified brick, at $2.75 a yd.

NEW ORLEANS, LA.—The Dock Board at a recent meeting decided to advertise for bids for paving a road back of the wharves, from Thalia to Calliope and from St. Joseph to Bienville Sts. The proposed road will be paved with Belgian blocks and the entire distance will be approximately 2,500 ft. W. J. Hardee is City Engr.

MEMPHIS, TENN.—The City Commissioners awarded the contract for paving McLemore Ave., from Mississippi Boulevard to Rayburn Boulevard, with asphalt recently to the BARBER ASPHALT CO., 143 Dearborn St., Chicago, Ill. The contract was immediately sublet by the firm to the MEMPHIS ASPHALT CO., which will start the work soon.

BELLAIRE, OHIO.—Bids were received on Sept. 26 by the Board of Control for improving Cherry Alley and the contract has been awarded to CHARLES ROSSER.

CANTON, OHIO.—Bids were opened on Oct. 13, in the office of the County Commissioners, for the improvement of the Canton and New Berlin Road, Stark County, as follows: Ohio Engineering Co., Elyria, $20,500; William H. Stanton, Canton, $22,040; Phillip Deiffenbacher & Sons, Massillon, $21,434; H. P. KNEISLY, Columbiana, $20,374 (contract awarded); S. A. Palmer, Marietta, $22,500; McGinty Contracting Co., $22,274; F. A. Downs, Canton, $21,800. J. C. Wonders is State Highway Comr., Columbus, under whose supervision the contract was awarded.

LOCKLAND, OHIO.—The KIRCHNER CONSTRUCTION CO., Eighth and Plum Sts., Cincinnati, has been awarded the contract to improve Wayne Ave., from Wells to Wyoming Ave., in Lockland, with vitrified brick, at a cost of $32,000.

CLEVELAND, OHIO.—Bids will be received at the office of the Board of County Commissioners of Cuyahoga County, until 11 a. m., Oct. 29, for grading and improving Ledge Hill on Som Center Road. John F. Goldenbogen is Clk., and Frank R. Lander is County Surv.

Bids will be received at the office of the Board of Commissioners of Cuyahoga County until 11 a. m., Nov. 2, for the change of grade on Broadview Road No. 1 and No. 4, from Hood Ave. to a point about 400 ft. southerly from Tampa Ave. John F. Goldenbogen is Clk.

COLUMBUS, OHIO.—Bids are asked until noon, Oct. 21, by H. S. Holton, Dir. of Public Service for the construction of cement sidewalks in Goodale Park. David A. Jones is Clk.

CLYDE, OHIO.—Bids will be received by the Village Council of Clyde, at the office of H. M. Bacon, Clerk of the Corporation, for constructing a brick pavement on Amanda and Birdseye Sts., from the westerly end of the brick pavement on Amanda St., as now constructed to a point 36½ ft. north of the southerly line of the Western Reserve and Maumee Turnpike (State St.) and extending the entire length of Birdseye St., by grading, paving and curbing the same with stone curbing and vitrified paving brick and for constructing a sewer therein with all necessary manholes, catch basins, flushing tanks, house connection pieces, etc., until noon, Oct. 25.

POMEROY, OHIO.—The Board of County Commissioners of Meigs County will receive bids on Oct. 20, for grading and paving a road .5 mile in length, in Rutland Township, after the provisions of the Ohio highway law. The work was advertised before but failed to be awarded because of lack of bids. The estimated cost is $4,[illegible]. Noted last week.

PORTSMOUTH, OHIO.—The Board of Control has awarded the contract to SAMUEL L. RICE, for paving Sinton St., from Front to Gallia Sts. Concrete base and tar filler will be used. Cost, $5,131.

SANDUSKY, OHIO.—The bids for the repairing of Central Ave. were opened on Oct. 7 by the board of public service. There was only one bidder the Andrews Asphalt Paving Co., of Hamilton, Ohio. For each square yard of Trinidad sheet asphalt, including 1¾-in. top course and 1¼-in. binder, $1.20. For each square yard of asphalt taken up and removed, 5 cts.; entire amount, $9,[illegible].

WAVERLY, OHIO.—Bids will be received at the office of the Commissioners of Pike County, until noon, Oct. 21, for grading, macadamizing and paving with concrete, one mile of road in Pee Pee Township under the provisions of the State Highway Law. James C. Wonders is Comr., Columbus.

BRAZIL, IND.—The Commissioners of Clay County have awarded a contract for the construction of the Jacob Graber gravel road in Harrison Township, to JAMES LANAGAN, at $9,800. W. B. Sutton submitted the highest bid, $10,245.

BLOOMFIELD, IND.—The Commissioners of Greene County have awarded contracts for the construction of gravel roads as follows: The Elliott road in Washington Township to FRANK MUSSLEMAN, of Newberry, at $4.605; the Clayton road in Stockton Township to FRED CARPENTER and R. M. STAFFORD of Lyons, for $4,600, and the Davhoff road in Jefferson Township to SAMUEL HAYES, of Worthington, at $5,298.

LA FAYETTE, IND.—The Commissioners of Tippecanoe County will receive bids until 10 a. m., Nov. 11, for the construction of a gravel road, petitioned for by Simeon Yeager and others, known as the Morehouse road in Tippecanoe County. John P. Foresman, County Audr.

WABASH, IND.—Bids will be received until 10 a. m., Nov. 9, by the Commissioners of Wabash County, for grading and paving with gravel 1½ miles of highway in Lagro Township. J. P. Noftzger, is County Audr.

RENSELLAER, IND.—The Commissioners of Jasper County will receive bids until 2 p. m., Nov. 9, for the construction of 5 stone roads. J. N. Leatherman, is County Audr.

INDIANAPOLIS, IND.—It has been decided by the Board of Park Commissioners to begin the construction of a boulevard in 38th St., from the canal to Capitol Ave., this year. H. W. Klausman, is City Engr.

CHICAGO, ILL.—Bids will be received by the City of Chicago until 11 a. m., Oct. 22, for paving with granite blocks Elston Ave. from the south line of Division St. to the foot of the approach leading to Division St. B. J. Mullaney is Comr. of Pub. Wks.

EAST ST. LOUIS, ILL.—The Board of Local Improvements plan to pave 38th St. with brick. William J. Crocken, City Engr., estimates the cost at $17,000.

MIDDLETOWN, ILL.—The Village of Middletown has awarded the contract for 26,000 sq. ft. of cement sidewalk, to HARVEY K. RHODES, of Lincoln.

MOLINE, ILL.—Bids were received on Oct. 1, by Henry C. First, Chn. Coal Valley Rural Road Com., Moline, for excavating and grading Coal Valley Rural Road as follows: W. I. Kettlewell of Iowa City, $11,515; McConnors & Co., of Chicago, section 1 $8,934; section 2, $5,227; Littig Bros., of Davenport, section 1, $7,762; section 2, $7,563; W. I. Kettlewell, of Iowa City, section 1, $6,288; section 2, $5.227; Litting Bros., of Davenport, section 1, $8,762; section 2, $9,887; F. J. Peterson, of Davenport, section 1, $11,167; section 2, $9,338. In the first section, there is 34,360 cu. yds. of dirt to move, and in the second section, 27,465, making a total of 61,825 cu. yds. to move.

NORMAL, ILL.—The contract for laying concrete walks for the city, has been let to E. J. METCALF, at 9.09 cts. a sq. ft.

PEORIA, ILL.—Bids will be received by the Board of Local Improvements, until 2 p. m., Oct. 24 for the construction of cement sidewalks on various streets. George F. Simmons is Pres.

The contract for constructing sidewalks on North Capitol St. has been awarded to JANSEN & ZOELLER, at 10 cts. a sq. ft. The same company was also awarded the contract for the Sixth-Elizabeth pavement, at $1.68½ a sq. yd.

STERLING, ILL.—The Board of Local Improvements has authorized the paving of Locust St. from Eleventh to Lefever Sts. with brick, at an estimated cost of $9,000.

KENOSHA, WIS.—JOHN O. JONES, of Racine, Wis., has been awarded the contract for about one mile of paving work in this city. His bid, which was the lowest of several received, was approximately $40,000.

MILWAUKEE, WIS.—Bids will be received until Oct. 21, for macadam paving, brick alley work, cement curb and gutters, etc., in the 11th, 14th, 17th, and 21st wards of the city. H. E. Briggs, is Comr. of Public Works.

DES MOINES, IOWA.—A boulevard along Guthrie Ave., from Union Park to Grandview Park is contemplated. Ray Floyd Weirick, City Landscape Arch. will prepare plans. John W. Budd, is City Engr.

WICHITA, KAN.—The contract for paving two miles of East Second St. from Washington Ave. east to the city limits, has been awarded to RACKLIFFE & GIBSON, representing the Hassam pavement, by the City Commissioners. Estimated cost, $85,000.

The Commissioners also awarded contracts for paving as follows:

West Douglas Ave. from Exposition to Millwood Ave. to the CLEVELAND-TRINIDAD PAVING CO., at $2.50 a yd.

To pave the right-of-way of the street car tracks on Central Ave, to W. G. McKEE, at $2.49 a yd.

Wiley Ave., from Park to Riverside Ave., to STUCKEY CONSTRUCTION CO., at $1.99 a yd.

Maple St., Hillside to Circle Drive, NOLAN & DRAPER, at $2. a yd.

Second St., from Emporia to Rock Island Ave., NOLAN & DRAPER, at $1.97 a yd.

Erie St., from Douglas Ave. to Cedar St., STUCKEY CONSTRUCTION CO., at $1.99 a yd.

OMAHA, NEB.—The Park Board has awarded the contract for grading the southeast boulevard near Riverview Park and the Northwest Boulevard near Fontenelle Park, to the KRANTZ-TURNER CO., at $10,000. The contract was awarded some time ago, but has been held in abeyance because the bonds for which the cost was to be paid have been held up on account of a technical defect.

OMAHA, NEB.—The Park Board has approved the plans for the proposed Central Boulevard to run from Maple and 34th Sts. to 38th and Hamilton Sts., and has instructed the City Engineer to prepare to make this a part of the park system, it is stated.

HELENA, MONT.—The Committee of Streets and Alleys, will receive bids soon for the improvement of Railroad Ave., and for laying a Portland cement sidewalk on the south side of Helena Ave., between Main St. and Montana Ave. Charles W. Hellmuck, is City Engr.

ST. LOUIS, MO.—Improvements to include the construction of sidewalks along various streets in the extreme West End, are planned, according to reports. James C. Travilla is Street Comr. and Maxine Reber is City Engr.

LITTLE ROCK, ARK—Bids will be received by the Commissioners of Street Improvement District No. 163 (Main St.), Little Rock, until 3 p. m., Oct. 25, for the paving of this district. L. W. Cherry, State Bank Bldg., is Secy.

BELLEVILLE, TEX.—The Austin County Commissioners voted a bond issue for road improvements to the amount of $25,000, it is stated, on Oct. 4.

DENVER, COLO.—In awarding the contract for street, curbing and sidewalk improvements in South Denver District No. 8, the Board of Public Works has taken another step toward the completion of the boulevard system in Denver. The contract, which was let to the GAFFY & KEEFE CONSTRUCTION CO., at $52,925, calls for the grading of the parkway which is to extend from the end of the Speer Boulevard at Downing St. to Washington Park.

CHEHALIS, WASH.—The contract for constructing a 16-ft. Warrenite road, about ½ mile long, has been awarded to the WARREN CONSTRUCTION CO., at $6,867.

BAKER CITY, ORE.—The City Council has awarded the contract to the WARREN CONSTRUCTION CO., at $2.25 a sq. yd., for bitulithic paving on Bridge, Auburn, Resort, North Main and Second Sts. Work will begin soon.

HERMOSA BEACH, CAL.—The BARBER ASPHALT PAVING CO., Henne Bldg., Los Angles, has been awarded the contract at $65,000, for paving two miles of roadway on Manhattan Ave., about 33,000 sq. yds. The Warrenite pavement will be used.

HUNTINGTON BEACH, CAL.—Bids will be received by the City Trustees, on Oct. 24, for grading, sanding and oiling Walnut Ave., and Olive Ave.

LONG BEACH, CAL.—Bids will be received up to Oct. 26, by the Board of Public Works, for constructing a roadway, retaining walls, storm drain, sidewalk, landings, curbs, steps and all other work required, on Alamitos Ave.

LOS ANGELES, CAL.—Bids will be received up to Oct. 24, by the County Supervisors, for improving portions of San Dimas Ave and the Covina-Lordsburg road. Homer Hamlin is City Engr.

SAN DIEGO, CAL.—Charles L. Gaskill, will receive bids soon for grading and paving of streets, and for installing water works and sewer system, for an amusement Company, who will erect a resort at Lia Juana on the Mexican boundery line, near hêre.

SANTA BARBARA, CAL.—JAMES P. DONAHUE has been awarded the contract for building the Gaviota highway, known as sections 4 and 5 in Third Road District, and comprising of four miles of road. Amount, $7,950.

SIERRA MADRE, CAL.—Bixby & White, Engrs., Mason Bldg., Los Angeles, are preparing plans and specifications for street improvements to be made at Sierra Madre to include, grading, graveling, cements, curbs and sidewalks and gutters, for 5 city streets, about 5,000 ft. in length. Bids will be called for soon.

BOISE, IDAHO.—At a meeting of the Joint Good Roads Committee, held recently, it was decided upon, that two good dirt roads be built, one between Boise and Star, and the other between Boise and Meridian. Reilly Atkinson of the Commercial Club, Harry Yost, and other are interested.

MANUFACTURING PLANTS.

(*Denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Plans have been filed for a 12-story brick store and factory, 75 × 90 ft., to be erected at 127 to 131 West 25th St., for the John E. Olson Construction Co., 141 West 45th St. F. C. Zobel, 114 East 28th St., is the Arch. Estimated cost, $225,000.

The contract for constructing a 4-story addition to the bottling house of the North American Brewing Co., at Green and Hamburg Aves., Brooklyn, has been awarded to M. ARMENDINGER & SON, 1153 Myrtle Ave., Brooklyn. Theobald Engelhardt, 905 Broadway, Brooklyn, is Arch.

UTICA, N. Y.—The Frisbie-Stansfield Knitting Co. has purchased the property at South and St. Vincent Sts. for the purpose of erecting a 4-story and basement mill, 54 × 154 ft. A power-house, 35 × 45 ft., will be built in connection with the mill.

BAYONNE, N. J.—Ground will be broken soon for the construction of a plant to manufacture pipe and tube bends and coils of all descriptions, at the foot of 57th St. and Ave. A, for the Smith, Cox & Co., recently organized. J. Fillmore Cox, 26th St. and Boulevard, Bayonne, is Pres. and Gen. Mgr.

BETHLEHEM, PA.—We are officially advised that bids will be received about Nov. 15, for the erection of a brick and steel machine shop, 45×160 ft., for the Casimir von Philp Co. A steam heating system will be installed. B. von Philp is the owner.

EAST FALLS (Philadelphia post-office), PA.—Plans were filed recently with the Bureau of Building Inspection for an addition to the plant of the Powers-Weightman-Rosengarten Co., East Falls. The proposed building will be two stories high, 60 × 60 ft., of stone and brick. It will be used for the manufacture of ether.

BUTLER, PA.—Plans are being prepared for the enlargement of the car barns of the Butler Passenger Ry. Co., it is stated. W. H. Pape is Gen. Mgr.

LESTER, PA.—Ballinger & Perrot, Archs. and Engrs., 1211 Arch St., Philadelphia, have awarded the contract to P. J. HURLEY, 1216 Chancellor St., Philadelphia, for an addition to the plant of the Lester Piano Co., at Lester. The building will be a two-story structure, 51 × 130 ft., with columns, floor and roof of slow-burning mill construction and walls of brick.

HIGHLANDTOWN, MD.—The ENGINEERING CONTRACTING CO., 502 St. Paul St., Baltimore, has been awarded the contract for erecting the proposed bottling plant for the Monumental Brewing Co, at a cost of about $70,000. The structure will be erected on Baltimore St., Highlandtown. It will be four stories high, of stone and concrete, and will be equipped with the latest facilities.

BALTIMORE, MD.—Plans have been completed by Frederick W. Wolf, Arch., for two additions to the plant of Frederick Bauernschmidt's Brewery on Hillen St. One is to be an office building, two stories high, of brick and stone with concrete foundation and slag roof. The other is to be a 4-story stock house and bottling establishment and will cost about $30,000.

BALTIMORE, MD.—The Monumental Sugar Refining Co., recently incorporated, plans to construct a plant in or near Baltimore. The buildings will be of brick with iron and concrete construction, fireproof throughout and equipped with machinery to be driven by electric motors and will have a capacity of 2,000 bbls. a day. William L. Frantz, Equitable Bldg., is Financial Agt. The company's capital is $3,000,000.

NORFOLK, VA.—The plant of the Portsmouth Cotton Oil Refining Co., which was partially destroyed by fire, to the amount of $50,000, will be rebuilt, it is stated.

KEYSER, W. VA.—H. A. Blair, Supt. of the Baltimore & Ohio R. R. Co.'s shops here, has been notified to prepare ground for the erection of extensive shops to be equipped for repairing steel cars. The plans prepared by the company's architect have been approved. The building will be 50 × 300 ft.

CHARLOTTE, N. C.—According to reports, O. A. Robbins, of this city, plans the construction of a fine cloth mill to cost $500,000. It will have 20,000 spindles.

UNION, S. C.—B. C. Flynn plans to erect a cotton mill in Union, with a capital of $50,000.

EAST POINT, GA.—The Leland Co., of New York, is about to establish a $75,000 plant to manufacture tombstones and granite for building purposes. The building is to be 80 × 500 ft.

ARITON, ALA.—The Ariton Fertilizer Co. has been organized to establish a 125-ton fertilizer factory, it is reported.

MOBILE, ALA.—The Corinth Chair Co., of Corinth, Miss., will increase its capital stock from $50,000 to $100,000 and plans to build a factory at North Mobile.

ALEXANDRIA, LA.—J. S. Bonner, of Houston, Tex., Pres. of the Bonner Oil Co., has decided to erect a manufacturing and compounding plant for lubricating oils at Alexandria. The plant will be erected on the site of the oil plant that was burned recently.

BELLEFONTAINE, OHIO.—Plans are being prepared for an addition to the Bellefontaine Stone & Lime Co.'s plant here.

CHICAGO JUNCTION (Chicago post-office), OHIO.—The contract for constructing the Baltimore & Ohio R. R. Co.'s shops and office buildings at Chicago Junction, has been awarded to PATRICK FARRELL, Second National Bank Bldg., Cincinnati. The contract includes five buildings, one of which is 800 ft. long and 40 ft. wide. The work will probably cost about $140,000.

SANDUSKY, OHIO.—The Bay View Foundry & Machine Co. has purchased additional property adjoining its present plant and will build an addition.

ZOAR, OHIO.—The Zoar Fire Clay Co. is being organized for the purpose of erecting a brick and sewer pipe works here. E. F. Houster, of Strasburg, is interested.

EVANSVILLE, IND.—Louis Lehle, Engr., 109 Randolph St., Chicago, Ill., is preparing plans for a $300,000 brewery at Evansville. It will be of steel, concrete and brick construction.

DETROIT, MICH.—G. A. Mueller, Breitmeyer Bldg., has let the following contracts for the proposed factory plant, 1 story, 100 × 225 ft., and 60 × 150 ft., for the Glass Enameled Package Co., Henry C. Wiedeman, Secy., 958 East Grand Boulevard. The buildings are to be of brick and steel: Masonry, to THOMAS SCHEICH & SON, 12 Jay St.; carpentry, to LOUIS SCHMIDT, 4 Frontenac Boulevard. The architect is receiving estimates on steam heating.

Louis Kamper, Fine Arts Bldg., let the following contracts on Sept. 28 for the proposed plant for the Detroit Forging Co., Hugo Sherer, Secy., 120 Mt. Elliott Ave. There will be one 3-story building, 100 × 100 ft.; also a 2-story addition to the present building, 30 × 150 ft. It will be of brick, cement blocks and reinforced concrete: Masonry, to GRATE & GRATE, at site; carpentry, to W. ARMSTRONG, Detroit. The building will cost $40,000.

Donaldson & Meier, Penobscot Bldg., and Ammerman, McColl & Anderson, Engrs, same address, are preparing plans for a 7-story and basement factory, 80 × 200 ft., for the Pingree Shoe Co., J. B. Haworth, Secy., 102 Jefferson Ave. The building is to be of brick and steel construction, and a fan system for ventilation and steam heat will be installed.

Malcomson & Higginbotham, Moffat Bldg., are preparing plans for a 3-story auto lamp factory, 67 × 200 ft., for Edmonds & Jones, 436 Lawton Ave. There will also be a power plant in connection with the factory. It will be of stock brick, with a Bedford stone composition roof and structural iron and electric fixtures. Cost, $40,000.

DETROIT, MICH.—Nettleton & Weaver, Penobscot Bldg., have let the following contracts on the proposed 1-story brick factory, 75 × 200 ft., for the Timkin Roller Bearing Co., E. W. Lewis, Secy. Clark St.: Masonry, to W. S. VIVIER, 189 Avery Ave.; carpentry, to FRANK PALI, 289 Rowena St.; steam heating and plumbing, to ERNST BROS., 414 Woodward Ave., all of Detroit.

Louis Kamper, Fine Arts Bldg., let the following contracts on Sept. 27, for the proposed 4-story and basement concrete factory building, 60 × 250 ft., for the Universal Motor Truck Co., 362 Grand River Ave. The building is to cost $50,000: Masonry, to the STERLING ENGINEERING CO., Woodward Ave. and Grand Boulevard; carpentry, to SCHMEID-SISMAN CO., 399 Beaufait Ave.; steam heating and plumbing, to ERNST BROS., 414 Woodward Ave.

DETROIT, MICH.—The Abbot Motor Car Co., of Warren, Ohio, have announced that they will soon erect an automobile factory in Detroit.

Mildner & Eisen, Hammond Bldg., have let the general contract for the 5-story brew house, 70 × 112 ft., for the Tivoli Brewing Co., T. W. Schrimger, Mgr., 1553 Mack Ave., to the A. J. SMITH CONSTRUCTION CO., Ford Bldg. Cost, $40,000. The same architects have also let the general contract for the Tivoli Brewing Co.'s 3-story storage building, 32 × 36 ft., to BRYANT & DETWEILER, Hammond Bldg.

Charles Sterling, 508 Commerce St., Milwaukee, Wis., let the general contract for the proposed tannery for Armstrong & Graham, Jefferson Ave., Detroit. The plant includes one 3-story building, 45 × 105 ft., one 2-story building, 43 × 160 ft., one 1-story building, 62 × 160 ft., and a shed, 27 × 54 ft., to JACKSON & MAURICE, Hart and Charlevoix Sts. It will be heated with steam. Cost, $45,000.

Pollmar & Ropes, Clelland Bldg., have let the following contracts for the auto garage for Robert Houghton, care of the Houghton French Coal Co., Detroit. The building will be of brick and steel, 60 × 115 ft. Masonry, to OTTO MISCH, Home Bank Bldg.; carpentry, to JAMES MOYNES & CO., 759 Beaubien St.; steam heating, to FISHER & KAYSER, 25 Jefferson Ave.

Albert Kahn & E. Wilby, Trussed Concrete Bldg., Detroit, are preparing plans for a concrete factory building for the Chalmers Detroit Auto Co., A. Redding, Supt., Jefferson Ave. It will be steam heated.

MARSHALL, MICH.—The De Vere-Gormley Co., Ohio Bldg., Toledo, Ohio, is preparing plans for a plant for the Marshall Furnace Co., of Marshall. It will be of brick and stone construction, 1 and 2 stories, 125 × 450 ft. Cost, $60,000.

MONROE, MICH.—The River Raisin Paper Co., George H. Wood, Mgr., 402 First St., Monroe, let the following contracts on Sept. 30, for their proposed $125,000 paper mill: Masonry and carpentry, to MAURER BROS., of Monroe; heating, to SHAW & KENDOLL, Toledo, Ohio. The plant includes a steam and electric power plant, 200-KW. direct-connected motor. The building is to cost $40,000; power plant, $20,000; machine equipment, $65,000.

DOWNING, WIS.—The Commercial Club is agitating the erection of a building for a galvanized iron factory.

MILWAUKEE, WIS.—The Kiel Furniture Co. will erect a 2 and 3-story addition to its plant on 32d St., between Wright and Clarke St., to cost $40,000. Van Ryn & De Gelleke are the Archs., Caswell Block. Reinforced concrete will be used throughout.

NEW LONDON, WIS.—The plant of the National Condensed Milk Co. is to be doubled in size, it is reported.

SHEBOYGAN, WIS.—The S. W. Miller Piano Co. will erect a plant here. M. STUBENRAUCH has the contract for carpentry work at $18,000. The company will buy motors and machinery after Jan. 1.

DES MOINES, IOWA.—E. D. Hawkins & Co., of Unadilla, N. Y., have leased property here from the Des Moines Union Railway Co., as a site for the silo factory, which will cost $50,000. The plant will be built at once. The Des Moines Commercial Club secured the new factory for the city.

MINNEAPOLIS, MINN.—From plans drawn by Boehme & Cordella, Archs., 502 Kasota Block, the Gluek Brewing Co. will erect a brick, steel and reinforced concrete wagon shed and shop at 20th Ave. and Grand St., N. E. A portion of the building, 12 × 22 ft., will be one story, and a portion, 61 × 179 ft., two stories. Cost, $20,000.

PITTSBURG, KAN.—The Western Steel & Iron Co. plans the construction of a rolling mill here and will soon start to move from Louisville, Ky. Walter Baird is one of the promoters. W. L. Packard, Pres. of the Commercial Club, is Trustee.

ALLIANCE, NEB.—The Alliance Creamery Co. will erect a 2-story brick addition, 40 × 80 ft., to its plant, to be used as cold storage and for refrigerating. Cost, $35,000.

KANSAS CITY, MO.—Plans are now being prepared for a factory, covering 3½ acres, bounded by Crystal and Eastern Aves. and Twelfth and 13th Sts., for the Butler Manufacturing Co., dealers in steel tanks and grain bins, by Smith, Rea & Lovitt, Archs., Dwight Bldg. The structure will be constructed almost entirely of glass, with granitoid floors. Estimated cost, $30,000. The officers of the company are: Charles R. Butler, Pres.; N. W. Butler, Vice-Pres.; John D. Stevens, Secy. and Treas.; E. E. Norquist, Supt., and H. F. Smothers, Asst. Secy.

TEXARKANA, ARK.—Texarkana Clay Products Co. is being organized with $100,000 capital stock to build a plant for manufacturing bricks, pottery, etc.

HOUSTON, TEX.—The National Fireproofing Co., Fulton Bldg., Pittsburg, Pa., is said to be contemplating the construction of a $100,000 plant and warehouse at Houston.

IRONDALE, WASH.—According to reports, improvements to the amount of $2,000,000, including four steel rolling mills, will be added to the Western Steel Corporation's plant at Irondale, and other additions to the plant are to be made soon as a result of financial arrangements made by James A. Moore, Pres. of the Corporation.

OLYMPIA, WASH.—The Farmers' Co-Operative Creamery Association, operating a plant on Third St., between Main and Columbia Sts., has purchased a new site on Columbia St., near Third St., and will erect a cement building.

SEATTLE, WASH.—Monte J. Wax, Mgr. of the Wagner Co., of Portland, has announced that his company is contemplating the erection of a factory building here for the purpose of housing a complete lithographing and engraving plant to manufacture post-cards, it is stated

EARLINGTON, WASH.—The Pacific Wheel & Axle Co., Empire Bldg., Seattle, will erect a foundry at Earlington, at a cost of $50,000 soon. The $4,000 plant of J. D. Jones, at Walla Walla, will be merged into this. The company will manufacture axles and other specialties. The officers are: J. D. Jones, Walla Walla, Pres.; C. W. Smith, Portland, Vice-Pres.; J. D. Stein, Seattle, Treas.; C. P. Cox, Seattle, Secy., and O. E. Sauter, Seattle, Attorney.

SPOKANE, WASH.—Additional buildings to cost $40,000 are being planned by the Kingsley Chemical Reduction Co., for its paint factory east of Spokane. The contract for the main factory building will be let soon. Jones & Levesque are the Archs. The buildings will be of reinforced concrete.

KENTON (Portland post-office), ORE.—The Durable Roofing Co., Dr. J. R. Wetherbee, Pres:; Harry P Coffin, Vice-Pres, and I. C. Sanford, Secy., all of Portland, and J. A. Barbour, Chicago, Gen. Mgr., have secured site north of Kenton and will erect a plant, 100 × 200 ft., for the manufacture of asbestos roofing.

SALEM, ORE.—The Perfection Sewing Machine Cabinet Co. has purchased a site at 14th and Leslie Sts., and will build a factory there. Machinery has been ordered. The officers are: A. Emig, of Portland, is Pres.; Odeville Yates, Portland, Vice-Pres., and V. A. Goode, Treas., and Charles Yates, of Salem, Secy.

PLACERVILLE, CAL.—An alcohol factory is contemplated here by W. F. Bray, it is stated.

TUCSON, ARIZ.—The California Concrete Tank Co., of Los Angeles, will erect a plant in Tucson. The capital of the company is $100,000 and the headquarters for the new company will be Tucson.

JULIAETTA, IDAHO.—J. F. Woody and his associates are planning to install a canning factory here, to be ready for operation next spring.

MISCELLANEOUS CONTRACTS.

(*Denotes that this work is advertised in Engineering News.)*

U. S. RECLAMATION SERVICE.—All news concerning canal and irrigation projects, etc., will be found under Water Supply—Irrigation.

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*DREDGING.—Portland, Me.—Bids were received as follows on Oct. 18 by Col. W. E. Craighill, Corps Engrs, U. S. A., Portland, for dredging in Pepperells Cove, Me.: (a) dredging cu. yd.; (b) boulders cu. yd.: Bay State Dredging Co., 185 Summer St., Boston, Mass., (a) 18.3 cts.; (b) $10. Eastern Dredging Co., 247 Atlantic Ave., Boston, (a) 16.2 cts.; (b) $8. Charles M. Cole, Fall River, (a) 20 cts.; (b) $10. Daly & Hannan Dredging Co., Ogdensburg, N. Y., (a) 22 cts.; (b) $12

FIRE-ENGINES.—Boston, Mass.—Contracts have been awarded by the city to the AMERICAN LA FRANCE FIRE ENGINE CO., Elmira, N. Y., for one first size steam fire-engine, at $5,250, and one second size engine to INTERNATIONAL POWER CO., Providence, R. I., at $4,650.

RIPRAP.—Boston, Mass.—Bids will be received until Nov. 17 by Col. Frederic V. Abbot, Corps, Engrs., U. S. A., Boston, for riprap for dike and breakwater at Princetown Harbor and House Point Flats.

FIRE PROTECTION.—Boston, Mass.—The city awarded contract on Oct. 10 to W. L. MORRISON for fire protection at the city hospital at $44,003. Other bidders were: John A. Rooney, $56,621 Jones & Meehan, $82,764

DREDGING.—Boston, Mass.—Bids were received on Oct. 15 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for dredging in connection with the Boston navy yard. The only bid received was that of the Eastern Dredging Co., 247 Atlantic Ave., Boston, at 38.9 cts. per cu. yd.

•DREDGING.—Newport, R. I.—Bids will be received by Lieut.-Col. J. C. Sanford, Corps. Engrs., U. S. A., until 2 p. m., Nov. 19, for dredging Newport Harbor.

BREAKWATER EXTENSION.—New Haven, Conn.—Contract has been awarded by the BREAKWATER CO., Arcade Bldg., Philadelphia, Pa., by the U. S. Government for the construction of the extension to the breakwater here.

TOLL HOUSES, ETC.—New York, N. Y.—Bids will be received by Kingsley L. Martin, Com. of Bridges, until 2 p. m., Oct. 27, for the construction of the toll houses, police shelters, electrical work, etc., for the Queensboro Bridge over the East River, between the boroughs of Manhattan and Queens.

STEEL TAIL SHAFT.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Oct. 27, for contract No. 1252, for furnishing all the labor and materials required for furnishing and delivering one nickel-steel tail shaft for ferryboat.

REPAIRS TO PIER.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Oct. 27, for contract No. 1244, for furnishing all the labor and materials required for making repairs to Pier 5, East River, Boro. Manhattan.

SCALES.—New York, N. Y.—Bids will be received by Henry S. Thompson, Comr. of Water Supply, Gas and Electricity, until 2 p. m., Oct. 26, for furnishing, delivering and erecting coal-weighing scales at various pumping stations, Boro. Brooklyn.

REPAIRING PIER.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until noon, Oct. 20, for Contract No. 1242, for furnishing all the labor and materials required for repairing the pier at Rossville, Staten Island, Boro. of Richmond.

DREDGING.—New York, N. Y.—Bids were receiced by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Oct. 15, as follows, for dredging at the U. S. navy yard, New York: R. G. Packard & Co., 130 Pearl St., New York, (1) 16 4/9 cts.; (2) 14 4/9 cts. International Contracting Co., 17 Battery Pl., New York, (1) 22 cts.; (2) 17 cts. William Beard, 21 State St., New York, (2) 16 9/10 cts. Morris & Cummings Dredging Co., 17 State St., New York, (1) 18 9/13 cts.; (2) 15 9/13 cts. P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., (2), 16 9/10 cts.

•DOOR OPERATING SYSTEM.—New York, N. Y.—The date for receiving bids for the pneumatic door operating system in the new post-office building, New York, has been extended to 3 p. m., Dec. 1. Advertised on Oct. 6.

•DREDGING.—New York, N. Y.—Bids were received on Oct. 3, as follows, by Col. William T. Russell, Corps Engrs., U. S. A., 802 Army Bldg., 39 Whitehall St., New York, for dredging in Arthur Kill, N. Y. and N. J., Raritan Bay, Shrewsbury River and Woodbridge Creek, N. J.: (a) Arthur Kill; (b) Raritan Bay; (c) Shrewsbury River; (d) Woodbridge Creek: Taylor Dredging Co., foot Communipaw Ave., Jersey City, N. J., (a) 14 cts. per cu. yd., (b) 15 cts. P. Sanford Ross, Inc., 277 Washington St., Jersey City, (a) 20.9 cts., (2) 23.9 cts. William Beard & Co., 21 State St., New York, (a) 19 cts., (b) 21 cts. United States Dredging & Contracting Co., 75 Montgomery St., Jersey City, (a) 24 cts., (b) 19½ cts., (d) 68 cts. The International Contracting Co., 17 Battery Pl., New York, (a) 17 cts., (b) 23 cts. The NEWBURGH DREDGING CO., Newburgh, N. Y., (c) 25 cts. (awarded contract). R. G. Packard Co., 130 Pearl St., New York, (a) 17 4/9 cts., (b) 19 4/9 cts. MORRIS & CUMINGS DREDGING CO, 17 State St., New York, (b) 12 4/11 cts. (awarded contract). COLUMBIA DREDGING CO., 68 Broad St., New York, (a) 13½ cts. (awarded contract). The bid for (d) was rejected. Amounts available for the work: (a) $9,000; (b) $16,000; (c) $8,000; (d) $3,000.

DOCK AND BERTH.—Buffalo, N. Y.—Bids are asked by the Department of Public Works, until 11 a. m., Oct. 25, for constructing a dock and berth in the Erie Basin for use of the naval militia. Francis G. Ward is Comr.

•EXCAVATION AND EMBANKMENT — Hinckley, N. Y.—Bids are asked for 700,000 cu yds of excavation and embankment here. For particulars apply to the Buffalo Dredging Co., D. S. Morgan Bldg., Buffalo, N. Y.

TRAVELING CRANE.—Albany, N. Y.—The NORTHERN ENGINEERING WORKS, 120 Liberty St., New York, it is reported, has been awarded the contract for furnishing a traveling crane for the Water Works Bureau at $4,095.

WHARVES. Jersey City, N. J.—The city is considering the construction of public wharves along the Hackensack River.

EMIGRANT STATION.—Gloucester, N. J.—The contract for the emigrant station to be built here for the United States Government, has been awarded to the GILPIN-GUERNSEY CO., North American Bldg., Philadelphia, Pa. The building will be of brick, three stories high, and will cost about $25,000, exclusive of furnishing and equipment.

TRACK SYSTEM.—Oakmont, Pa.—C. E. BROSIUS, Pittsburg, Pa., representing the Atlas Car Mfg. Co., has secured a contract for the installation of a complete industrial track system in the new plant of the Best Mfg. Co. here, to include 2,000 ft. of track, turntables, switches, mill cars and equipment.

PIER.—Philadelphia, Pa.—The Dock Department, Joseph F. Hasskarl, Acting Oir., is considering the construction of a new double-deck pier at Dock St. Estimated cost, $400,000.

WALL.—Carlisle, Pa.—Bids are asked until 3 p. m., Oct 29, by James Knax Taylor, Superv Arch., Treasury Dept., Washington, D. C., for the construction of a lot wall in the property line on the south and west of the new federal building at Pitt and Louther Sts.

•DREDGING.—Wilmington, Del.—Bids will be received by Maj. R. R. Raymond, Corps Engrs., U. S. A., until noon, Nov. 17, for dredging Raccoon Creek, N. J.

BATHHOUSE, COMFORT STATION. — Baltimore, Md.—The Board of Awards is asking for bids at the office of J. Sewell Thomas, City Register, City Hall, for the erection complete of the proposed public bathhouse and comfort station to be erected at Harford, Greenmount and Monument Sts.

•WHARF.—Richmond, Va.—Bids will be received by the Commission on James River Improvement, until 4 p. m., Nov. 1, for specifications, plans and detail drawings for building a reinforced concrete bulkhead wharf on James River at Richmond. Charles E. Bolling is City Engr.

SEAWALL.—Norfolk, Va.—Bids will be received by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a. m., Nov. 19, for a seawall at the U. S. navy yard, Norfolk.

•CEMENT.—Wheeling, W. Va.—Bids will be received by Capt. F. W. Altstaetter, Corp. Engrs., U. S. A., until 11 a. m., Oct. 29, for 8,000 bbls. of Portland cement for dam No. 26, Ohio River.

MACHINERY.—Welsh, W. Va.—The Seng Creek Coal Co., which was recently incorporated with a capital stock of $100,000, will install machinery for the development of 1,200 acres of coal lands.

DITCHES.—Chadbourn, N. C.—Bids will be received until Nov. 1 by D. Boughner, Chn. Drainage Comrs., for constructing drainage ditches in the Chadbourn Drainage District. Length of ditches, approximately 19 miles, requiring the excavation of about 140,720 cu. yds. earth. C. R. Humphreys is Engr., Wilmington, N. C.

•DREDGING. — Wilmington, N. C. — Bids will be received by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, until Nov. 12 for dredging in Smiths Creek Harbor at Morehead City and harbor at Beaufort. Specifications are on file at the office of Engineering News, New York.

•DREDGING. — Wilmington, N. C. — Bids were received on Oct. 10 by Capt. Earl I. Brown, Corps Engrs., U. S. A., Wilmington, for dredging in (a) Shallowbag Bay, 40,000 cu. yds.; (b) South River, 75,000 cu. yds.; (c) Bay River, 140,000 cu. yds.; and (d) Waterway connecting Swan Quarter Bay with Deep Bay, N. C., 53,000 cu. yds.; W. M. French, Norfolk, Va., (a) 30 cts. per cu. yd.; $12,000; (b) 20 cts.; $15,000; (c) 15 cts.; $21,000; (d) 28 cts.; $14,840. Total, $62,840. Miner Engineering Co., Washington, D. C., (a) 25 cts.; $10,000; (b) 14 cts.; $10,500; (c) 12¾ cts.; $17,850; (d) 19½ cts.; $10,335. Total, $48,685 (recommended for award).

•DREDGING. — Wilmington, N. C. — Bids were opened as follows by Capt. Earl I. Brown, Corps Engrs., U. S. A., on Oct. 14, for dredging 1,810,000 cu. yds. in Cape Fear River: Bowers Southern Dredging Co., Galveston, Tex., 7.95 cts.; $143,895 (recommended for award). Charles Vivian & Co., Islip, L. I., N. Y., 11.40 cts.; $206,340. Coastwise Dredging Co., Norfolk, Va., 9.20 cts.; $166,520. Atlantic Gulf & Pacific Co., 13 Park Row, New York, 10.80 cts.; $195,480.

•DREDGING. — Charleston, S. C. — Bids were received as follows on Oct. 10 by Capt. E. M. Adams, Corps Engrs., U. S. A., for dredging canal between Price Creek and McClellanville, S. C.: Simons-Mayrant Co., Charleston, 15.3 cts., at rate of not less than 25,000 cu. yds. per month. Savannah Dredging Co., Savannah, Ga., 38 cts., at same rate.

•DREDGE MACHINERY. — Montgomery, Ala.—Bids were received by Capt. H. B. Ferguson, Corps Engrs., U. S. A., Montgomery, on Sept. 30, as follows for cutter machinery and other accessories for a 15-in. pump dredge: Alex. Miller & Bro., Jersey City, N. J., $34,310, delivery of first lot, 40 days; second lot, 60 days; third lot, 85 days. American Locomotive Co., New York, $38,500; first lot, 75 days; second lot, 105 days; third lot, 135 days. Norbom Engineering Co., Philadelphia, Pa., $26,800; first lot, 45 days; second lot, 75 days; third lot, 112 days. Ellicott Machine Co., Baltimore, Md., $33,800; first lot, 80 days; second lot, 120 days; third lot, 120 days.

SHED, TRACK AND TRESTLE.—Fort Morgan, Ala.—Bids will be received by Lieut. Edwin F. Barlow, Constr, Q. M., U. S. A., until 1.30 p. m., Oct. 28, for the construction of a coal shed, railroad track and trestle.

RETAINING WALL. — Cleveland, Ohio. — Bids are asked by the Clerk of the Board of Education until noon, Nov. 7, for all materials and labor to complete a retaining wall on the Woodland Hills School lot. Charles Orr is Dir. of Schools.

DRAINAGE.—Ackerman, Miss.—The farmers and planters of the Bywy Creek community, in the northern part of the county, are taking steps to have Bywy swamps drained. There are 12,500 acres to be embraced in the proposed drainage district.

DITCHES.—Greenwood, Miss.—The Board of Trustees of Cude Drainage District has awarded contract for digging 20 miles of open ditches, 484,000 cu. yds. excavation bids opened on Oct. 7, to I. S. KOCHLITZY CONSTRUCTION CO., of Cape Girardeau, Mo., at 9½ cts. Total, $45,000.

DRAINAGE.—New Orleans, La.—The contract for drainage work in the Iberia and St. Mary Drainage District has been awarded to ROGER HOLMES, Liverpool, London & Globe Bldg., New Orleans, care of Johnson & Armstrong.

CREOSOTED PILES, ETC.—New Orleans, La.—Bids will be received by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., until 11 a. m., Oct. 26, for furnishing and delivering creosoted piles and walling timbers on the river bank or wharves in Southwest Pass, Mississippi River.

EARTHWORK. — New Orleans, La. — Bids will be received until 11 a. m., Oct. 31, by Capt. Robert R. Ralston, Corps Engrs., U. S. A., 3338 St. Charles Ave., New Orleans, for constructing about 36,000 cu. yds. of earthwork in the Lafourche Levee District.

ROCK WORK, ETC.—Jackson, Ky.—MASON & HANGER, awarded contract for 16 miles of railroad extension on the Lexington & Eastern R. R., will sublet contracts for rock tunnel and scraper work. Apply to S. B. Mason, Jackson, Ky.

REPAIRING BREAKWATER.—Cleveland, Ohio.—Bids will be received until 10 a. m., Nov. 10, by Col. John Millis, Corps Engrs., U. S. A., Cleveland, for repairing breakwater at Cleveland Harbor.

•HULLS, FLATBOATS, ETC.—Cincinnati, Ohio.—Bids will be received by Maj. John C. Oakes, Corps Engrs., U. S. A., until noon, Nov. 15, for two manoeuvre boat hulls, three flatboats and two dump scows.

REVETMENTS, GUIDE-WALLS, ETC.—Cincinnati, Ohio.—Bids for constructing revetments, guide-walls, etc., on the Muskingum River will be received by Maj. John C. Oakes, Corps Engrs., U. S. A., until noon, Oct. 26.

BOILER. — Cincinnati, Ohio. — Bids are asked by the Director of Public Service, until noon, Oct. 21, for furnishing and delivering a boiler and making the necessary attachments and connections for the engine of Fire Co. No. 20. Elmer G. Prior is Secy.

GRANDSTAND, ETC.—Cleveland, Ohio.—Bids will be received by the Board of Education until noon, Oct. 31, for the erection of a grandstand for the West Technical School.

CELLS.—Columbus, Ohio.—The Board of Managers of the Ohio Penitentiary has awarded the contract for the erection of 130 cells in a new cell block to the CHAMPION IRON CO., Kenton, Ohio, at $37,254.

CULVERT REPAIR.—South Bend.—Ind.—Bids are asked by the Board of Commissioners of St. Joseph County until Oct. 31 for repairing one culvert in Penn Township and two in Greene Township.

DITCH.—Rockport, Ind.—The Commissioners of Spencer County will soon ask for bids for the construction of the Haines ditch in Grase, Ohio, and Luse Townships.

ROCK CRUSHER.—Lake Linden, Mich.—The Calumet & Hecla Foundry has completed profiles and will soon begin the construction of a rock crusher.

IMPROVING RIVER.—Sault Ste. Marie, Mich.—MacARTHUR BROTHERS, 11 Pine St., New York, and 277 Dearborn St., Chicago, has been awarded contract by the United States Government for making improvements in the St. Mary's River at the falls, Sault Ste. Marie, at $675,280. The work consists in the construction of a part of a new navigation channel, leading to the proposed new third and fourth locks on the American side, and construction of a new head-race, controlling works and ice passages for the Edison Sault Electric Co., the present head-race belonging to this company being in the way of the construction of the new canal.

•DREDGING, ETC. — Chicago, Ill. — Bids were received as follows, on Oct. 12, by Maj. Charles S. Bromwell, Corps Engrs., U. S. A., for dredging and rock excavation in the Chicago River: (a) soft material, 4,000 cu. yds., scqw measure; (b) rock and non-dredgable hardpan at Fullerton Ave. bridge, 2,800 cu. yds., place measure; (c) rock and non-dredgable hardpan above Fullerton Ave. bridge or elsewhere, 17,200 cu. yds., place measure; (d) totals: Buffalo Dredging Co., Buffalo, N. Y., (a) 70 cts.; $2,800; (b) $7; $19,600; (c) $6; $103,200; (d) $125,600. The Fitz Simons & Connell Co., Chicago, Ill., (a) 45 cts.; $1,800; (b) $6.50; $18,200; (c) $4.75; $81,700; (d) $101,700. Great Lakes Dredge & Dock Co., Chicago, Ill., (a) 35 cts; $1,400; (b) $5.40; $15,120; (c) $3.95; $67,940; (d) $84,460 (recommended for award).

HARBOR.—Chicago, Ill.—According to the "Chicago Post," George M. Wisner, Ch. Engr., Sanitary District of Chicago, is preparing plans for an outer harbor with dock facilities for both freight and passenger steamers.

DITCHES.—Murphysboro, Ill.—Bids were opened on Sept. 30 for excavating about 563,000 cu. yds. of earth required in enlarging old and cutting new ditches for the Commissioners of Big Lake Special Drainage District. Contract has been awarded to the HARDING DREDGING CO., of Vincennes, Ind., at $48,233. Joel Dunn is Engr., Fordyce.

SAND.—Clinton, Iowa.—Bids are asked by the City Council until Oct. 25, for 5,210 cu. yds. of sand to fill between tow line and park wall at the head of Fourth Ave.

DREDGING.—Duluth, Minn.—The Duluth Dredge & Dock Co. has let a sub-contract on its dredging contract on the anchorage basin in Duluth Harbor to the ZENITH DREDGE CO.

DREDGING.—Duluth, Minn.—Contract has been awarded to the DULUTH-SUPERIOR DREDGING CO. for dredging in Duluth Horen Basin. Bids were opened on Sept. 20. List of bidders noted on Oct. 6.

RETAINING WALL.—Walker, Minn.—The contract has been awarded to RICE & SONS for 300 ft. of cement retaining wall, five feet at the base, two feet at the top and six feet high.

RETAINING WALL.—Red Lake Falls, Minn.—Contract has been awarded by Red Lake County to HUSSEY & GORDKER, Crookston, Minn., for constructing a concrete retaining wall at the court house, 8,000 sq. ft. of cement sidewalk and 400 ft. of curb. A. A. Latendresse is County Audr.

EARTHWORK, ETC.—Garden City, Kan.—Wheeler & Keleher, Garden City, have 250,000 cu. yds. of earthwork to let: grader work, fresno work, wheeler work, short haul, eastern Kansas.

EXCAVATION.—Table Rock, Neb.—Contract has been awarded by the Drainage Board to the POLLARD & CAMPBELL DREDGING CO., Omaha, Neb., for the excavation necessary for the draina[illegible] of the Great Nemaha River bottoms, a[illegible] ¼ cts. for the main channel and 10 cts. [illegible] yd. for Clear Creek and Taylor branch[illegible] There are over 600,000 yds. to be remov[illegible]

DRAINAGE. — Galveston, Tex. — [illegible]s will be received about Dec 1 by the Co[illegible] Commissioners Court for a drainage [illegible]rict in Galveston County Estimated cost [illegible]45,000. E. N. Sanctuary is Engr., Galveston.

•JETTY.—Galveston, Tex.—Bids [illegible] received by Maj. G. P. Howell, Cor[illegible] Engrs., U. S. A., as follows, on Oct. 8, [illegible] jetty work at Aransas Pass: (a) 9,300 [illegible] riprap; (b) 3,400 tons crest stone; [illegible] 20,000 tons riprap; (d) 2,000 tons cap bl[illegible]; (e) totals: David M. Picton & Co., [illegible]eston, (a) $3.06; $28,644; (b) $4.09; $1[illegible] (c) $3.49; $69,800; (d) $4.20; $8,400; [illegible] $120,750. Charles Clarke & Co., Galv[illegible] (a) $3.65; $33,945; (b) $3.85; $13,[illegible] (c) $3.58; $71,600; (d) $3.85; $7,7[illegible] (e) $126,335.

BALUSTRADE, ETC. — Colorado [illegible]rings, Colo.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. [illegible] has awarded contract for the construct[illegible] of a balustrade and retaining wall at t[illegible] Colorado Springs post-office to J. H. [illegible]IESE, South Omaha, Neb., at $21,400.

DIKES.—Seattle, Wash.—Bids were [illegible]eived as follows on Oct. 6 by Capt. Arth[illegible] Williams, Corps Engrs., U. S. A., Seatt[illegible] for constructing dikes at Skagit River: Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, $135,392. International Dredging Co., Seattle, $92,924.

WHARF, ETC.—Seattle, Wash.—Bids will be received until 11 a. m., Oct. 29, by Capt. E. C. Long, Constr. Q. M., U. S. A., Seattle, for constructing a wharf, storehouse and two boathouses, at Fort Ward; also alternative bids, omitting the storehouse and boathouses.

DREDGING. — Seattle, Wash. — Bids are asked until noon, Oct. 22, by Capt. Arthur Williams, Corps Engrs., U. S. A., for dredging Hammersley Inlet, Wash.

REPAIRS TO STEAMER.—Seattle, Wash.—Moran Bros. are the lowest bidders at $3[illegible],000 for repairs to the steamship Puebla owned by the Pacific Coast Co.

SCENIC RAILWAY.—Los Angeles, Cal.—Eager & Eager, Archs., Los Angeles, desire estimates on the equipment of a scenic railway for the Alta Planing Mill Co. Estimated cost, $50,000. Noted on Oct. 6.

CULVERT.—Los Angeles, Cal.—Bids will be received by the Board of Supervisors until 2 p. m., Oct. 31 for furnishing all labor and materials necessary for construction of a concrete culvert on Sixth St. in East Whitter Road District. C. G. Keyes is County Clk.

CULVERT.—Los Angeles, Cal.—The Board of Supervisors will receive bids until 2 p. m., Oct. 24, for the construction of a concrete culvert on El Monte-Pomona Road, near Savannah. C. G. Keyes is County Clk.

DREDGING.—Los Angeles, Cal.—Bids will be received by Capt. W. P. Stokey, Corps Engrs., U. S. A., until 11 a. m., Nov. 7, for dredging Los Angeles harbor. Bids for this work were rejected on Sept. 10.

CONCRETE PILING.—Los Angeles, Cal.—Contract for concrete piling for the pleasure pier at Ocean Park, promoted by A. R. Fraser, has been awarded to CHARLES W. CORBALEY at $175,000.

FIRE ENGINE. — Porterville, Cal. — Bids will be received until Oct. 31 by the City Trustees for one motor-driven chemical fire engine and one motor-driven hose cart. M. M. Dale is Clk.

LEVEES, ETC.—Santa Ana, Cal.—Bids will be received until Oct. 20 by the Board of Directors of Newbert Protective District, Commercial Bank Bldg., Santa Ana, for the construction of levees and channel of the Santa Ana River through the district. F. W. Johnston is Secy.

RETAINING WALL.—Winnemucca, Nev.—Contract has been awarded by the county for the construction of a retaining wall here to the RENO CONSTRUCTION CO. Reno, Nev., at $8,798. George S. Nickerson is Engr., Winnemucca.

BREAKWATER EXTENSION, DIPPER DREDGE, ETC.—Ottawa, Ont.—The Department of Public Works of Canada, Ottawa, has awarded contracts as follows: Wiarton, Colpcy's Bay, Ont., breakwater extension, to KASTNER & PORTER, Wiarton, at $13,99[illegible]; Prince Edward Island, dipper dredge, to JOHN BURNS & WILLIAM WALTERS, Ottawa, at $21,350; Shelbourne, N. S., wharf, to F. A. RONNAN & CO., & D. STEWART, Halifax, N. S., at $24,790; Montmagny, Que., extension to wharf in basin, to J. ELZEAR BOULONGER, Montgomery, at $5,2[illegible]; River Ouareau, at Pointe Rielle, Que., to JOSEPH RENAUD, St. Paul de Joliette, Que., at $2,478; British Columbia dredge, to WILLIAM SIMONS & CO., LTD., Renfrew, Scotland, Agts. for Canada, John Reid & Co., [illegible] Board of Trade Bldg., Montreal, Que. Spanish Ship Bay, N. S., repairs to Hartling wharf, work to be done by day labor.

WHARF EXTENSION.—Providence Bay, Ont.—Bids will be received until 4 p. m., Nov. 7, by the Department of Public Works, Ottawa, Ont., R. C. Desrochers, Secy., for constructing an extension to the wharf at Providence Bay, township of Carnarvon, Manitoulin Island ,Algoma, Ont. J. G. Sing is Dist. Engr., Confederation Life Bldg., Toronto.

SUBWAY.—Calgary, Alta.—Bids will not be asked by the city until spring for the proposed subway. W. D. Spencer is City Clk. Noted on Oct. 6.

PROTECTION PIER.—Winnipeg, Man.—Bids will be received until Nov. 2, by the Public Works Department, R. C. Desrochers, Secy., Ottawa, Ont., for the construction of a pile protection pier at Winnipeg-Beach, Man.

DOCKS, ETC.—Prince Rupert, B. C.—The Canadian Fisheries & Cold Storage Co. has secured a water frontage near here and will begin the construction of docks and boats at once.

DRY DOCK.—Vancouver, B. C.—The Dominion Government has approved the plans of the Thompson Co. for a commercial dry dock, [illegible] ft. long, of the second class, to be erected here at a cost of $1,000,000.

BRASS FITTINGS, ETC.—Victoria, B. C. —Bids will be received until 4 p. m., Oct. 24, by W. [illegible] Northcott, Civic Purchasing Agent, for a quantity of brass fittings, lead and galvanized piping and galvanized fittings.

CONTRACT PRICES.

(* *Denotes that this work is advertised in Engineering News.)*

DIKES.—Seattle, Wash.—Bids for constructing dikes at Skagit River, Wash., were received Oct. 6 by Capt. Arthur Williams, Corps Engrs., U. S. A., Seattle from (A) Puget Sound Bridge & Dredging Co., (B) International Dredging Co. as follows:

	A	B
10,700 cords brush	$3.50	$4.25
125,480 lin. ft. piling	.17	.138
18,300 tons stone	2.75	1.48
175,000 ft. B. M. lumber	25.00	15.50
3,000 lbs. spikes	.05	.04
7,200 lbs. wire	.05	.03
Totals	$135,392	$92,924

SEWERS, WOODBURY, N. J.—Bids were opened Sept. 27 for constructing sewers at Woodbury, N. J. The bidders were: (A) John C. Schrader, Summit, N. J.; (B) Donato Delise, Philadelphia, Pa.; (C) Cantrell Construction Co., Philadelphia, Pa.; (D) B. F. Sweeten & Sons, Camden, N. J. The itemized bids were as follows:

SEWERS, WOODBURY, NEW JERSEY.

	A	B	C	D
3,500 lin. ft. 8-in. tile pipe, cut less than 6½ ft.	$1.35	$0.76	$0.60	$0.78
3,690 lin. ft. 8-in. tile pipe, cut 6½ to 8 ft.	1.55	.77	.75	.86
415 lin. ft. 8-in. tile pipe, cut 8 to 10 ft.	1.75	.85	1.00	1.00
80 lin. ft. 8-in. tile pipe, cut 10 to 12 ft.	2.15	1.05	1.50	1.25
135 lin. ft. 8-in. tile pipe, cut 12 to 15 ft.	2.90	1.85	2.00	1.88
225 lin. ft. 8-in. tile pipe, cut 15 to 18 ft.	4.00	2.95	3.00	2.81
50 lin. ft. 8-in. tile pipe, cut 18 to 21 ft.	6.00	2.95	4.50	3.44
24 lin. ft. 6-in. c.-i., cut less than 6½ ft.	1.55	1.18	1.20	1.35
24 lin. ft. 8-in. c.-i. cut less than 6½ ft.	1.75	1.25	1.50	1.50
24 lin. ft. 8-in. c.-i., cut 6½ to 8 ft.	1.95	1.60	1.75	1.58
24 lin. ft. 8-in. c.-i., cut 8 to 10 ft.	2.15	1.88	2.00	1.72
24 lin. ft. 8-in. c.-i., cut 10 to 12 ft.	2.65	2.25	2.25	2.00
24 lin. ft. 8-in. c.-i., cut 12 to 15 ft.	3.50	2.72	3.00	2.75
24 lin. ft. 8-in. c.-i., cut 15 to 18 ft.	5.00	3.10	4.00	3.50
24 lin. ft. 8-in. c.-i., cut 18 to 21 ft.	7.00	3.55	5.50	4.35
2,000 lin. ft. 4-in. drain	.80	.38	.45	.50
2,000 lin. ft. 5-in. drain	.85	.38	.50	.50
1,000 lin. ft. 6-in. drain	.90	.45	.55	.50
50 lin. ft. 4-in. pipe, cut less than 6½ ft.	1.15	.38	.40	.60
50 lin. ft. 4-in. pipe, cut 6½ to 8 ft.	1.35	.50	.50	.70
50 lin. ft. 5-in. pipe, cut less than 6½ ft.	1.20	.40	.45	.70
50 lin. ft. 5-in. pipe, cut 6½ to 8 ft.	1.40	.51	.60	.80
50 lin. ft. 5-in. pipe, cut 8 to 10 ft.	1.60	.70	.80	.94
50 lin. ft. 6-in. pipe, cut less than 6½ ft.	1.25	.46	.50	.73
50 lin. ft. 6-in. pipe, cut 6½ to 8 ft.	1.45	.56	.65	.83
50 lin. ft. 6-in. pipe, cut 8 to 10 ft.	1.65	.73	.85	.97
50 lin. ft. 6-in. pipe, cut 10 to 12 ft.	2.05	.73	1.10	1.23
200 Ys.	1.00	.68	.75	.75
Flush tank, less than 5 ft. (lump sum)	175.00	73.00	85.00	90.00
3 flush tanks, 5 to 6½ ft.	185.00	75.00	95.00	90.00
5 flush tanks, 6½ to g ft.	195.00	82.00	110.00	90.00
11 manholes, less than 6½ ft.	65.00	32.00	35.00	33.00
9 manholes, 6½ to 8 ft.	75.00	34.00	40.00	37.00
15 manholes, additional depth, 8-in. wall	7.00	3.25	3.50	3.50
12 manholes, additional depth, 12-in. wall	10.00	4.42	4.50	4.50
27 manholes, additional depth	2.00	3.92	1.50	4.00
Pumping station (lump sum)	4,950.00	4,000.00	3,500.00	2,900.00
Force main	900.00	1,400.00	1,320.00	990.00
40 cu. yds. extra excavation	2.50	.61	.75	.75
10 cu. yds. rock excavation	4.50	2.05	4.50	4.50
30 M. ft. B. M. timber	40.00	40.00	50.00	37.50
4 cu. yds. brick masonry	17.00	8.00	15.00	15.00
100 lbs. c.-i. fittings	.05	.05	.05	.10
100 lbs. extra w.-i. forgings	.10	.08	.10	.15
200 lbs. reinforcing material	.05	.04	.05	.05
Totals	$28,053.75	$17,420.08	$17,438.00	$17,057.05

EXAMINATIONS.

ALBANY, N. Y.—The State Civil Service Commission will hold an examination Nov. 26 for various positions in the State Civil Service. Application blanks for these positions must be filed on or before Nov. 19. Detailed circulars and application blanks may be obtained from the Commission. The examinations will include the following positions:

SPECIAL INVESTIGATOR, Department of Labor. Salary, $1,200.

CHIEF INVESTIGATOR, Department of Labor. Salary, $2,500.

HIGHWAY INSPECTOR, various counties. Salary, $3.50 to $4.50 a day.

JUNIOR STATISTICIAN, Public Service Commission, Second District. Salary, $1,200 to $1,500.

ASSISTANT INSPECTOR OF GAS, Public Service Commission, Second District. Salary, $1,080 to $2,100.

ASSISTANT CHIEF, Division of Statistics and Accounts, Public Service Commission, Second District. Salary, $2,400.

MECHANICAL ENGINEER, Transportation Department, Public Service Commission, First District. Salary, $2,401 to $3,000.

TELEPHONE TRAFFIC INSPECTOR, Public Service Commission, Second District. Salary, $1,200 to $1,800.

THE CIVIL SERVICE COMMISSION, STATE OF NEW JERSEY, will hold an examination Nov. 16 for the following positions. Application blanks may be obtained from the Civil Service Commission, Trenton, N. J.

SANITARY INSPECTOR.—Salary, $1,200 to $1,500 a year. One vacancy. Applicants must be under 35 years. Graduates from institutions giving special attention to hygiene and sanitation preferred.

SANITARY ENGINEER (Division of Sewerage and Water Supplies).—Salary, $1,200 to $1,800 a year. One vacancy. Applicants must be at least 20 and not over 35 years, and should have a degree from a college recognized as giving special attention to sanitary engineering, or should have had at least two years' practical experience.

ASSISTANT CHEMIST (Division of Sewerage and Water Supplies.)—Salary $960 to $1,500 a year. Three vacancies. Applicants must be at least 20 and not over 30 years of age, and should be graduates of a college recognized as giving special attention to chemistry. Should have taken a complete course in chemistry, particularly as applied to water purification and sewage trade waste or should have had at least two years' practical experience along such lines of work.

MECHANICIAN.—Mount Weather, Va.—The U. S. Civil Service Commission announces an examination on Nov. 9-10, to secure eligibles from which to make certification to fill a vacancy in the position of skilled Mechanic at $1,200 a year, for service in the Weather Bureau at Mount Weather, and vacancies requiring similar qualifications as they may occur in any branch of the service. Age limit, 20 years. Application form 1,800.

INSPECTOR OF ENGINEERING.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nev. 9-10-11, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Inspector of Mechanical and Electrical Engineering. The salary of this position in the Supervising Architect's Office is usually $2,190 a year. Age limit, 20 years. Application form 1,312. Applications must be filed prior to closing hour on Oct. 29.

WIRELESS TELEGRAPH OPERATOR.—Hawaii.—The U. S. Civil Service Commission announces the postponement to Nov. 9, of the examination scheduled for Oct. 19, to secure eligibles from which to make certification to fill a vacancy in the position of Electrician and Wireless Telegraph Operator (male), $90 a month, Light-House Service, for duty under the Assistant Inspector of the Twelfth Light-House District, Territory of Hawaii, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interest of the service to fill the vacancy by reinstatement, transfer, or promotion. Applicants must have reached their 21st, but not their 40th birthday, on the date of examination. Application form 1,800.

HYDRO-ELECTRICAL ENGINEER.—San Francisco, Cal.—The U. S. Civil Service Commission announces an examination on Nov. 9-10, to secure eligibles from which to make certification to fill two vacancies in the position of Hydro-Electrical Engineer in the Forest Service at San Francisco, at $2,100 and $2,400 a year, and vacancies requiring similar qualifications as they may occur in that service at salaries ranging from $2,100 to $3,000 a year, depending chiefly upon the character of the training and experience of the eligibles, unless it shall be decided in the interest of the service to fill the vacancies by reinstatement, transfer, or promotion. Applicants must have reached their 25th, but not their 45th birthday, on the date of the examination. Application form 1,312. Applications must be filed prior to closing hour on Oct. 29.

INDUSTRIAL NOTES.

THE SECOND LARGEST ORDER ever taken for sheet piling was recently booked by the Lackawanna Steel Co., 2 Rector St., New York City. This was for about 5,000 tons of Lackawanna sheet steel piling to be used by the United States Government in the work incident to raising the battleship "Maine," in Havana harbor.

THE IDEAL ELECTRIC & MFG. CO., Mansfield, Ohio, announce that the Machinery & Supply Co., 61 Fremont St., San Francisco, Cal., have been appointed their Western Agents. The Machinery & Supply Co. now carry a full line of "Ideal" apparatus covering the principal sizes. This line includes alternating and direct-current generators, induction motors, both of the slipring and squirrel cage types, special elevator motors of both types and a complete line of direct-current motors.

THE WISCONSIN ENGINE CO., Corliss, Wis., reports that it has a contract for three horizontal cross-compound condensing Corliss engines for the Tidewater Portland Cement Co., at Union Ridge, Md. Cylinders, 23 × 48 ins. and 46 × 48 ins. The engines will be equipped with a special valve gear and governors peculiar to the company's high speed Corliss engines, and they will be designed for particularly economical performance and close regulation on a variable load. Each engine will be directly connected to a 925-KVA., three-phase, 60-cycle alternator.

COMPREHENSIVE INDEXING may be said to be the key note to the 19th annual edition of Hendricks' Commercial Register, recently issued. This index, which is made up of 1328 pages of fine type, lists of the principal manufacturers, and practically all of the manufacturers of machinery in the United States, it gives many separate classifications of the machines built. As an example, under the general heading "Hose," there are 35 sub-headings, including hose for chemical engines, high pressure hose, dredging hose, flexible metallic hose, as well as the better known forms of rubber, cotton, linen, and section hose. The index contains information giving the busy engineer an idea where to purchase practically every commodity used in engineering. With the multiplicity of different types of machines under construction, it has been difficult for engineers to locate the manufacturer of a particular article desired, especially when the article was new. In this volume special pains have been taken not only to index the article under its appropriate heading, but also to give a cross-reference under the heading an engineer might look for it. An idea of the comprehensiveness may be gained from the fact that 100 pages are used as an index of the contents. This 19th annuel edition is sold by S. E. Hendricks Co., 74 Lafayette St., New York City.

TRADE PUBLICATIONS.

SELF-DUMPING SCOW.—Norbom Engineering Co., Philadelphia, Pa. Paper; 6 × 10 ins.; pp. 12; illustrated.

The Wiking self-dumping scow, which was the subject of an article in Engineering News March 10, 1910, is described and pictured here.

OIL FILTERS.—Burt Mfg. Co., Akron, Ohio. Paper; 6 × 9 ins.; pp. 111; illustrated.

Several designs of filters for purifying used lubricating oil are described. In addition, a few specialties manufactured by the company are also described. These include ventilators and engine-exhaust heads.

AIR HOISTS.—Detroit Hoist & Machine Co., Detroit, Mich. Paper; 6 × 9 ins.; pp. 24; illustrated.

A pneumatic motor and the hoisting and conveying apparatus which it is designed to operate are described here. This apparatus includes simple hoists, wrecking winches and locomotive turn-table mules.

CENTRIFUGAL PUMPING MACHINERY.—Morris Machine Works, Baldwinsville, N. Y. Paper; 6 × 9 ins.; pp. 96; illustrated.

A complete line of centrifugal pumps and auxiliary apparatus is described in this catalog. This includes both horizontal and vertical types for sewage, irrigation, dredging, water supply and industrial works.

AUTOMATIC BUCKETS.—The Browning Engineering Co., Cleveland, Ohio. Paper; 6 × 9 ins.; pp. 8; illustrated.

The buckets are of the clamshell and orange-peel types, for excavation and for handling loose material. There is also a special grapple or skeleton bucket for handling cord wood, ties, baled hay, etc.

PORTABLE AND TRACTION ENGINES.—R. Wolf, Magdeburg, Germany.

We have received several booklets advertising the "locomobiles" for which this company is noted. The term as used by them covers not only self-propelling engines but also portable and semi-portable boiler-and-engine sets.

LOCOMOTIVES.—Hannoversche Maschinenban Actien Gesellschaft, Hannover, Germany. Paper; 9 × 12 ins.; pp. 62; illustrated.

This is an interesting album of locomotives, which form the chief business of the company. Descriptions and tables are in five languages.

DERAILS.—Hayes Track Appliance Co., Geneva, N. Y. Paper; 8 × 10½ ins.; pp. 4; illustrated.

The Hayes derail is described, particularly in relation to its extensive use on the Cincinnati Southern Ry., where it is said to average more than one per mile of track.

GRAB BUCKETS.—Mead-Morrison Mfg. Co., Cambridge, Mass. Paper; 6 × 9 ins.; pp. 44; illustrated.

The buckets are mainly of the clamshell type, but "orange-peel" and special designs are included also. The buckets are of various shapes, adopted to different classes of material and work, and are operated by different arrangements of lines and mechanism. In capacity they range from ¼-cu. yd. to 200 cu. ft.

TRACKLAYING MACHINE.—The Garver Tracklaying Machine Co., 537 Marquette Building, Chicago. Circular; 8 × 11 ins.

The machine is operated by pneumatic power, but no description is given of the machine or its use. Pneumatic appliances handle the material, drive the spikes and fit the nuts on the bolts.

ROCK CRUSHERS.—Eureka Stone & Ore Crusher Co., Cedar Rapids, Ia. Stiff paper; 6 × 9 ins.; pp. 51; illustrated.

This second edition of an old catalog contains classified descriptions of the various crushers manufactured by this company. These vary from small machines for the use of the farmer to the largest contractor's equipment.

RUST RESISTING PAINTS.—Semet-Solway Co., Syracuse, N. Y. Paper, 3½ × 6¼ ins.; pp. 4; illustrated.

This is a price list of special paints for structural steel, for hot metal (such as steel chimneys) and for submerged or damp metal, such as pipes, flumes, etc. There is also an acid-resisting paint and a waterproof coating for brick and concrete work.

DIPPER DREDGES.—American Steel Dredge Co., Fort Wayne, Ind. Paper; 3½ × 6 ins.; pp. 8; illustrated.

There is a brief description of the company's dredge for ditch and canal work, which has the A-frame braced by diagonal posts resting upon the ground at each side of the excavation. Mention is made also of a small sized dredge operated by a 40-HP. gasoline engine.

LIGHTNING PROTECTION.—Arrow Conductor & Mfg. Co., Chicago. Paper; 4½ × 7½ ins.; pp. 12; illustrated.

The Arrow point is of solid copper with a large amount of metal, and is sweated into a copper tube enclosing the cable. The lower end of the cable is fitted with a special grounding attachment. The illustrations show steeples, chimneys, etc., equipped with this system.

HYDRAULIC TURBINE GOVERNORS.—Woodward Governor Co., 201 Mill St., Rockford, Ill. "Power Control." Vol. I., No. I. Paper, 6 × 9 ins.; pp. 14; illustrated.

This first issue of a new house organ is dated August, 1910. The leading articles deal with the history of the growth of the Woodward Governor Co., and with the necessity of using governors on water wheels.

PNEUMATIC RIVETERS.—Hanna Engineering Works, 259 Elston Ave., Chicago, Ill. Paper; 6 × 9 ins.; pp. 22; illustrated.

This is a book of instructions for the guidance of repairmen and operators of Hanna type pneumatic riveters. It is stated that the Hanna riveter, in order to give the best results, must be operated entirely differently from the plain toggle riveter. Instructions are given for erection, lubrication and repairing.

CONCRETING APPLIANCES.—Concrete Appliances Co., Los Angeles, Cal., and St. Louis, Mo. Paper; 6 × 9 ins.; pp. 32; illustrated.

This pamphlet describes a system of delivering concrete directly into the forms by spouts carried by booms suspended from a central tower in which is an elevator for the concrete buckets. The system has been used on a large number of structures of various kinds: office buildings, public buildings, railway buildings, bridges, etc.

GRAB AND SCRAPER BUCKETS.—The G. H. Williams Co., Cleveland, Ohio. Paper; 2 pamphlets; 6 × 3½ ins.; pp. 16 and 24; illustrated.

The first pamphlet is a compilation of testimonials for users of different forms of clamshell buckets for shaft excavation, dredging, handling sand and coal, etc. The other pamphlet shows various designs of these buckets, and also a new drag-scraper bucket for use on excavation work.

TANKS AND TOWERS.—U. S. Wind Engine & Pump Co., Batavia, Ill. Paper; 6¾ × 10 ins.; pp. 32.

The tanks are of wood stave construction, with steel towers, except that one 2,000-barrel tank is shown supported on a masonry tower 100 ft. high. They are for railway, municipal, fire and general purposes. Details of tank fittings, tower construction, etc., are given and there are list of dimensions of tanks and prices of both towers and tanks.

CONDENSERS.—Wheeler Condenser & Engineering Co., Carteret, N. J. Paper; 6 × 9 ins.; pp. 24; illustrated.

"Condensers for Small Central Stations" is the title given this pamphlet, which is a reprinted paper presented before the annual convention of the Missouri Electric, Gas, Street Railway and Waterworks Association in April, 1910. It compares the fuel savings of running an engine with a condenser for its exhaust steam, and presents the merits of the Wheeler types of condensers and air pumps.

"TORSCAN" METAL.—Stark Rolling Mill Co., Canton, Ohio. Paper; 4 × 8 ins.; pp. 36; illustrated.

The material here advertised is a steel claimed to be far superior to ordinary steel as regards corrosion, and even better than wrought iron. The process of manufacture is not described, but test results are stated and various forms of product are listed—galvanized sheet, corrugated and crimped metal, expanded lath, etc.

ROTARY SNOW PLOW.—American Locomotive Co., New York, N. Y. Paper; 8 × 10¾ ins.; pp. 12; illustrated.

The "Rotary" and its work are described briefly but in an interesting manner. A number of interesting views show the machine plowing heavy snow, which was in some cases 24 ft. deep in the drifts (C., St. P., M. & O. Ry., 1909). There is a list of 42 railways using the "Rotary," two of these being in Europe and two in South America.

RECORDING WEIR GAGES.—Lea Recorder Co., 28 Deansgate, Manchester, England.

A float-gage fitted with a recording chart apparatus has been adapted by the above concern to triangular weirs, for the purpose of giving a record of discharge over the weir. The combined device is used in a number of plants for measuring feedwater or condenser discharge so as to furnish a record of steam-consumption.

PENNSYLVANIA TERMINAL STATION.—Westinghouse, Church, Kerr & Co., Engineers, New York City. Paper; 6 × 9 ins.; pp. 61; illustrated.

The company designed the New York Terminal Station of the Pennsylvania R. R., and designed and contracted for the equipment. They also contracted for the associated Long Island R. R. electric equipment. These works are succinctly described with illustrations in the present pamphlet.

THE PECK CARRIER.—Link-Belt Co., Philadelphia, Pa. Paper; 6 × 9 ins.; pp. 96; illustrated.

The well-known Peck design of bucket conveyor secures proper engagement and disengagement of the overlapping lips of consecutive buckets by hanging the bucket at the end of a projection of the arm beyond the joint pin. The principle, construction and many applications of this conveyor are excellently presented in this catalog, No. 81.

TILE DITCHING MACHINE.—The St. Paul Ditcher & Carrier Co., St. Paul, Minn. Paper; 9 × 6 ins.; pp. 16; illustrated.

The machine consists of two parts, each traveling upon an endless track or "caterpillar." One part carries the engine and driving machinery. The other carries the bucket chain which excavates the ditch and the lateral conveyor which delivers the material clear of the excavation. A special feature is that the tiles are laid automatically, being fed into an inclined chute. Testimonials are given.

CONCRETE MIXERS.—Eureka Machine Co., Lansing, Mich. Paper; 9 × 12¼ ins.; pp. 16; illustrated.

The Eureka mixer is of the paddle type with a large trough in which runs the shaft having the paddles or blades. Above the trough are hoppers for the cement, sand and stone, and these are fitted with revolving gates for automatically proportioning the feed to the mixing trough. It is built in stationary, belted and portable types, the latter being equipped with steam or gasoline engines.

WATERPROOFING.—Ceresit Waterproofing Co., Commercial National Bank Bldg., Chicago. Paper; 3¼ × 6¼ ins.; pp. 16; illustrated.

The "Ceresit" is a compound which is added to the water used in mixing mortar or concrete. It has been used on a number of important engineering and architectural structures, including railway tunnels, dams, reservoirs and tanks, power plants, etc. There is a list of these structures, with some views. Directions are given for the use of the material.

CAR HEATING APPARATUS.—Gold Car Heating & Lighting Co., New York. Paper; 9 × 12 ins.; pp. 165; illustrated.

This catalog contains all the various devices, fittings and special fixtures with this company's systems of train heating. The catalog for the most part is a compilation of separate parts, but there are diagrams, with comment, showing the general schemes as they are worked out in this concern's practice. At the end of the book a few pages are found describing a system of acetylene gas lighting.

DITCHING MACHINE. — The American Ditching Machine Co., West Minneapolis, Minn. Paper; 6¼ × 9¼ ins.; pp. 24; illustrated.

The "American Ditcher" consists of a gasoline tractor with a 9½-ft. excavating wheel in the rear. This can be raised or lowered as desired, and is fitted with a double run having cutting blades. The earth is carried up between the rims and is removed at the top by fixed plows which fit between them. These plows deliver the earth upon a pair of revolving tables from the outer side of which it is thrown upon the ground by means of fixed scrapers.

CORE DRILLS.—Ingersoll-Rand Co., New York. Paper; 6 × 9 ins.; pp. 48; illustrated.

A design of core drill known as the "Calyx Diamondless" is the subject of this bulletin. As should be well known, the function of the core drill is the determination of the character and thickness of materials beneath the earth's surface by means of cylinders extracted from an annular hole. It should also be well known that two systems of core drilling have found practical application (1) the diamond type, using "black diamonds," or hard carbons, set in a bit, and (2) the diamondless drill, which uses either a simple steel cutter or an annular bit with chilled steel shot as a cutting agent. The Calyx type, here described, makes use of either the simple toothed bit or one which may make use of chilled shot. The bulletin describes the equipment and methods of operating and shows work which has been done.

LIST OF CONTRACTS PENDING.

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
10-21	*Sewers, Louisville, Ky...(P. & S.)	10-13
10-22	Pier, Boston, Mass......(S.)	9-29
10-22	Drydock pumping equip., Wash., D. C. ....(S)	9-22
10-22	**Pier, Boston, Mass....(S.)**	**9-29**
10-24	***Steel for gates, Detroit, Mich. (S.)**	**9-29**
10-27	***Tug, New York ....(S.)**	**9-29**
10-29	***Stone dam, Cincinnati, Ohio..(S.)**	**9-29**
10-31	**Embankment, Duluth, Minn..(S.)**	**10- 6**
11- 1	*Canals, etc., North Yakima, Wash. ....P. & S.)	9-29
11- 1	*Reservoir, Binghamton, N. Y. ....(P. & S.)	9-22
11- 5	Extension to dike, Villejo, Cal. ....(S.)	9-29
11- 5	Gas house remodeling, Mare Island, Cal. ....(S.)	9-15
11- 5	Steel shed, Charleston, S. C..(S.)	10-13
11- 7	*Bridge, Pueblo, Colo...(P. & S.)	10-20
11-12	Capstan, New York....(S.)	10-13
11-12	Dredging, Wilmington, N. C.(S.)	10-20
11-12	Power plant, Annapolis, Md.(S.)	10-20
11-19	Quarters, Mare Island, Cal...(S.)	10-13
11-19	Seawall, Norfolk, Va....(S.)	10-20
11-30	*Diversion channel, Portland, Ore. ....(S.)	9-29

Light, Heat and Power Plants.

Bids open.		Noted in issue of
10-21	Light fixtures, Troy, N. Y.	10-20
10-22	Electric elevator, National Military Home, Kan.	10-20
10-25	Light fixtures, Cincinnati, Ohio.	10-13
10-25	Street lighting, Addyston, Ohio.	10-13
10-25	Steam heating, New York	10-20
10-27	**Boilers, Lancaster, Ohio**	**10- 6**
10-27	*Heater and purifier, Grand Rapids, Mich.	10-20
10-28	Elec. light plant, Seward, Neb.	10-20
10-31	**Elec. light system, Egypt (Foreign)**	**10- 6**
10-31	Electric wires, etc., Boston, Mass.	10-20
10-31	Heating and vent., New York	10-20
11- 1	Lighting system, New York	10-20
11- 3	Light fixtures, New York	10-13
11- 3	**Elec. equipment, Canby, Minn.**	**9-29**
11- 5	**Gas house remodeling, Vallejo, Cal.**	**9-15**
11- 7	Elec. fixtures, Montesano, Wash.	10-20
11-12	Power plant, Annapolis, Md.	10-20
11-14	Franchise, Bodie, Cal.	10-13
12- 1	*Heating and vent. system, New York	10-20
12- 1	Elec. elevator equip., New York.	10-20

Bridges.

10-21	**Bridges, Upper Sandusky, Ohio**	**10- 6**
10-22	**Bridges, Shelbyville, Ind.**	**10- 6**
10-24	Bridge, Allentown, Pa.	10-20
10-24	Bridge, Center Valley	10-20
10-25	Bridge, Buckingham, Va.	10-20
10-26	Bridge, Cumberland, Va.	10-20
10-26	Bridges, Somerset, Pa.	10-20
10-26	**Bridges, Cleveland, Ohio**	**10- 6**
10-26	**Bridges, Cleveland, Ohio**	**10-13**
10-27	Bridge, Williamsport, Pa.	10-20
10-27	Bridge, Pleasant Pa.	10-20
10-27	Bridge, Independent, Va.	10-20
10-27	Bridge, Greensburg, Pa.	10-20
10-28	*Bridge, Layton, N. J.	10-20
10-31	**Bridge, Zanesville, Ohio**	**10-13**
10-31	**Bridge, Ukiah, Cal.**	**9-29**
11- 2	**Bridges, Tallulah, La.**	**10-13**
11- 7	Bridge, Pueblo, Colo.	10-20
11-11	Bridge, Indianapolis, Ind.	10-20

Buildings.

Bids close.		Noted in issue of
10-21	Municipal bldg., Point Marion, Pa.	10-20
10-22	Building addition, Fort Myers, Va.	10-20
11-23	Post-office, Rock Island, Ill.	10-20
10-24	Post-office addition, Montreal, Que.	10-20
10-24	***Post-office, Willmar, Minn.**	**9-22**
10-24	**Post-office, Troy, Ala.**	**9-22**
10-24	**Public bldg., Strathcona, Alta.**	**10- 6**
10-24	**High school, Portsmouth, Ohio.**	**10-13**
10-24	**Public building, Goderich, Ont.**	**10- 6**
10-25	**Building, etc., National Soldiers' Home, Va.**	**10- 6**
10-25	**Building, New York, N. Y.**	**10-13**
10-25	Court-house, Grand Forks, B. C.	10-20
10-25	Union station, Tampa, Fla.	10-20
10-26	***Quarters, Fort Hancock, N. J.**	**9-29**
10-26	**Warehouse, Vancouver, B. C.**	**10- 6**
10-27	**Boilers, Lancaster, Ohio**	**10- 6**
10-27	High school, Portsmouth, Ohio.	10-20
10-29	Building, Raybrook, N. Y.	10-13
10-31	Hospital, Boston, Mass.	10-13
10-31	Heating and vent. system, Cleveland, Ohio	10-20
11- 1	High school, Bloomfield N. J.	10-13
11- 1	*Hospital, Winnebago, Wis.	10-20
11- 1	Plans, Toronto, Ont.	6- 9
11- 2	School, Revere, Mass.	10-20
11- 3	Laundry bldg., Cleveland, Ohio. ....(Mfg. Pl.)	10-13
11- 5	**Remodeling gas house, Mare Island, Cal.**	**9-15**
11- 7	**Post-office, Demopolis, Ala.**	**10- 6**
11- 8	Quarters, etc., Genoa, Neb.	10-20
11-10	Barracks, National Soldiers Home, Va.	10-20
11-14	**Post-office, Pontiac, Mich.**	**9-22**
11-19	**Quarters, Mare Island, Cal.**	**10-13**
11-19	**Post-office, Eagle Pass, Tex.**	**10-13**
11-22	***Post-office, Lewiston, Idaho**	**10- 6**
11-22	**Post-office, Porto Rico**	**10- 6**
11-30	**Building, Phila., Pa.**	**9-29**
12- 1	Post-office, New York, N. Y.	10-20
1-31	Court-house, Onida, S. Dak.	10-20
4-15	Plans, Havana, Cuba	10-20

Water-Works.

At once,	Reservoir, etc., McLeansboro, Ill.	10-20
10-20	Hydrants, Cleveland, Ohio	10-20
10-20	Water pipes, Waukegan, Ill.	10-20
10-21	**Cleaning water mains, New York.**	**10-13**
10-21	Laterals, etc., Malta, Mont.	10-20
10-22	**Standpipe, etc., Athens, Ohio**	**10- 6**
10-22	Water mains, Beecher, Ill.	10-20
10-24	**Water main, Euclid, Ohio**	**9-29**
10-24	**Diverting gate, Turlock, Cal.**	**10-13**
10-24	**Water-works, Highland Park, Va,**	**10-13**
10-25	***Pumping station work, Parkersburg, W. Va.**	**10-13**
10-25	***Pumping station, Fort Terry, N. Y.**	**10-13**
10-25	Water pipe, Clyde, Ohio	10-20
10-26	Valves, etc., New York	10-20
10-27	W.-wks. supplies, New York	10-20
10-27	**Water-works, Walworth, Wis.**	**10-13**
10-27	Water mains, Oconomowoc, Wis.	10-20
10-27	Pipe, etc., Walworth, Wis.	10-20
10-37	Water mains, Ft. Bayard, N. Mex.	10-20
10-28	*Pumping station, Peoria, Ill.	10-20
10-28	Water pipe, etc., Newark, Ohio.	10-20
10-29	**Sub laterals, No. Yakima, Wash.**	**9-29**
10-31	**Water system, Egypt, (Foreign)**	**10- 6**
11- 1	*Engine, Atlantic City, N. J.	10-20
11- 1	*Reservoir, Binghamton, N. Y.	9-22
11- 1	***Canals, etc., North Yakima, Wash**	**9-29**
11- 1	**Water plant, Owensboro, Ky.**	**10- 6**
11- 2	Water mains, etc., New York	10-20
11- 3	***Pumping engine, Brookline, Mass.**	**10-13**
11- 7	Water mains, etc., Chanute, Kan.	10-20
11-30	***Diversion channel, Portland, Ore.**	**9-29**
12- 1	*Head gates, Boise, Idaho	10-20
12-15	*Diversion work, Klamath Falls, Ore.	10-20

Sewers.

10-20	Sewer, St. Paul, Minn.	10-20
10-21	Sewers, Oconomowoc, Wis.	10-20
10-21	***Sewers, Louisville, Ky.**	**10- 6**
10-25	**Sewerage plans, Beaver Falls, Pa.**	**10- 6**
10-25	**Sewers, West Liberty, Iowa**	**10-13**
10-25	**Sewers, Emmetsburg, Iowa**	**10-13**
10-25	Sewers, Buffalo, N. Y.	10-20
10-26	**Sewers, Brooklyn, N. Y.**	**10-13**
10-27	*Sewers, Caro, Mich.	10-20
10-28	***Sewers, Westfield, N. Y.**	**10- 6**
10-29	Sewers, Brainerd, Minn.	10-20
11- 1	**Sewers, Shelbyville, Ind.**	**9-29**
11- 1	***Sewers, Atlanta, Ga.**	**10- 6**
11- 1	***Sewers, Eastman, Ga.**	**10-13**
11- 1	*Sewer system, Bellefontaine, O.	10-20
11- 2	Sewers, Oakland, Cal.	10-20
11- 7	Sewers, Roseville, Cal.	10-20
11-14	*Sewers, Atlantic City, N. J.	10-20

Streets and Roads.

10-20	Grading, etc., Pomeroy, Ohio.	10-20
10-21	Paving, etc., Milwaukee, Wis.	10-20
10-21	Paving, etc., Waverly, Ohio.	10-20
10-21	Sidewalks, Columbus, Ohio.	10-20
10-21	**Sidewalks, Columbus, Ohio.**	**10-13**
10-21	**Grading, etc., Seattle, Wash.**	**10-13**
10-21	**Road repair, Cincinnati, Ohio.**	**10- 6**
10-22	Paving, Chicago, Ill.	10-20
10-24	Street impvts., Los Angeles, Cal.	10-20
10-24	Grading, etc., Huntington Beach, Cal.	10-20
10-24	Sidewalks, Peoria, Ill.	10-20
10-25	Paving, Little Rock, Ark.	10-20
10-25	Paving, Clyde, Ohio.	10-20
10-26	Sidewalks, etc., Long Beach, Cal.	10-20
10-26	Paving, New York, N. Y.	10-20
10-27	Grading, etc., New York, N. Y.	10-20
10-27	Paving, Portsmouth, N. H.	10-20
10-27	Roads, Pittsburg, Pa.	10-20
10-29	Grading, etc., Cleveland, Ohio.	10-20
10-29	**Paving, Racine, Wis.**	**10-13**
10-31	**Paving, Spokane, Wash.**	**10-13**
10-31	*Paving, Portsmouth, Va.	10-20
11- 1	***Roads, Jacksonville, Fla.**	**10- 6**
11- 2	Change of grade, Cleveland, Ohio.	10-20
11- 2	Repaving, New York, N. Y.	10-20
11- 7	**Road, Vernon, Ind.**	**10-13**
11- 7	***Streets, Westfield, N. J.**	**10-13**
11- 9	Roads, Rensselaer, Ind.	10-20
11- 9	Grading, Wabash, Ind.	10-20
11-10	Roads, Rushville, Ind.	10-13
11-11	Gravel road, Lafayette, Ind.	10-20
11-12	**Road, Fort Wayne, Ind.**	**10- 6**

Miscellaneous.

Bids close.		Noted in issue of
10-20	Repairing pier, New York	10-20
10-21	Boiler, Cincinnati, Ohio	10-20
10-21	Incinerator chimney, New York (garbage)	10-20
10-21	**Dredging, San Francisco, Cal.**	**10-13**
10-21	***Dredging, New York**	**9-22**
10-22	**Dry dock pumping equip, Washington, D. C.**	**9-22**
10-22	**Pier, Boston, Mass.**	**9-29**
10-22	Drainage, Clinton, Ill.	10-13
10-22	Dredging, Seattle, Wash.	10-20
10-24	Culvert, Los Angeles, Cal.	10-20
10-24	**Dams and ditches, Rapid City, S. Dak.**	**10-13**
10-24	***Steel for gates, Detroit, Mich.**	**9-29**
10-24	**Alterations, etc., Goderich, Ont.**	**10- 6**
10-24	**Brass fittings, Victoria, B. C.**	**10-13**
10-25	**Ditch, Clinton, Ill.**	**10- 6**
10-25	**Dock and berth, Buffalo, N. Y.**	**10-20**
10-25	**Diversion of river bed, Blairmore, Alta.**	**10-13**
10-25	Sand, Clinton, Iowa	10-20
10-26	Revetments, guide-walls, etc., Cincinnati, Ohio	10-20
10-26	Creosoted piles, etc., New Orleans, La.	10-20
10-26	Scales, New York	10-20
10-26	**Levee work, Vicksburg, Miss.**	**10-13**
10-26	**Buoys, etc., Tompkinsville, N.Y.**	**10-13**
10-26	**Wharf, St. Andrews, Que.**	**10-13**
10-26	**Pier, Bonaventure River, Que.**	**10-13**
10-26	***Steel pipe, Washington, D. C.**	**10-13**
10-27	**Fire apparatus, New York**	**10-13**
10-27	**Dredging, San Francisco, Cal.**	**10-13**
10-27	***Dredging, Savannah, Ga.**	**9-29**
10-27	***Tug, New York**	**9-29**
10-27	Collecting wks., Russia (Foreign)	9- 1
10-27	*Subway system. etc., New York.	9- 8
10-27	*Stone dam, Cincinnati, Ohio.	9-29
10-27	Supplies, Panama (U. S. Poss.).	10- 6
10-27	Repairs to pier, New York	10-20
10-27	Steel tail shaft, New York	10-20
10-27	Toll houses, etc., New York	10-20
10-28	Shed, track, etc., Fort Morgan, Ala.	10-20
10-28	**Garbage, (Garbage), New Albany, Ind.**	**10- 6**
10-28	**Fire engine, Duluth, Minn.**	**10-13**
10-29	Wharf, etc., Seattle, Wash.	10-20
10-29	Levees, Santa Aria, Cal.	10-20
10-29	*Cement, Wheeling, W. Va.	10-20
10-29	Wall, Carlisle, Pa.	10-20
10-31	Fire engine, Porterville, Cal.	10-20
10-31	Earthwork, New Orleans, La.	10-20
10-31	Stone, Boston, Mass.	10-13
10-31	Lighthouse, buoy steamer, Victoria, B. C.	9- 8
10-31	Steamer, Victoria, B. C.	9-15
10-31	**Railway supplies, New Zealand (Foreign)**	**10- 6**
10-31	***Crib and embankment, Duluth, Minn.**	**10- 6**
10-31	Steamer, Ottawa, Ont.	10-13
10-31	Culvert, Los Angeles, Cal.	10-20
10-31	Grandstand, etc., Cleveland, O.	10-20
10-37	Culvert repair, South Bend, Ind.	10-20
11- 1	***Brackets, etc., Norfolk, Va.**	**10- 6**
11- 1	**Dredging, Cleveland, Ohio**	**10- 6**
11- 1	**Jetty extension, Cleveland, O.**	**10- 6**
11- 1	Ditches, Chadbourn, N. C.	10-20
11- 1	*Wharf specifications, plans, etc., Richmond, Va.	10-20
11- 2	Protection pier, Winnipeg, Man.	10-20
11- 2	**Automobile, London, Ont.**	**10- 6**
11- 5	**Extension to dike, Vallejo, Cal.**	**9-29**
11- 5	**Dam, Cincinnati, Ohio**	**10-13**
11- 5	Levee work, Allenform, Tex.	10-20
11- 7	Retaining wall, Cleveland, Ohio.	10-20
11- 7	**Wharf extension, Providence Bay, Ont.**	**10-20**
11- 7	Dredging, Los Angeles, Cal.	10-20
11- 7	***Dredging, rock removal, New York**	**10-13**
11- 8	***Guide walls, etc., Cincinnati, O.**	**10-13**
11- 8	***Dredging, Wilmington, Del.**	**10-13**
11- 8	**Torpedo boat destroyer, Washington, D. C.**	**9- 8**
11-10	***Breakwater, Detroit, Mich.**	**10-13**
11-10	Repairing breakwater, Cleveland, Ohio	10-20
11-12	Dredging, Wilmington, N. C.	10-20
11-12	**Capstan, New York**	**10-13**
11-12	***Wooden pier, Annapolis, Md.**	**10-13**
11-12	***Riprap stone, Boston, Mass.**	**10-13**
11-15	Hulls, flat-boats, etc., Cincinnati, Ohio	10-20
11-16	**Incinerating plants (Garbage) San Francisco, Cal.**	**8-25**
11-16	***Steamboat, St. Louis, Mo.**	**10- 6**
11-17	*Dredging, Wilmington, Del.	10-20
11-17	Riprap, Boston, Mass.	10-20
11-19	Seawall, Norfolk, Va.	10-20
11-19	*Dredging, Newport, R. I.	10-20
12- 1	Door operating system, New York.	10-20
——	*Excavation and embankment Hinckley, N. Y.	10-20
12- 1	**Port works, Turkey (Foreign).**	**10- 6**
12- 1	**Battleship, Colliers, Washington, D. C.**	**10- 6**
12-13	**(1911) Copper mine, Turkey (Foreign)**	**10- 6**

Examinations.

Applications filed.		Noted in issue of
11- 2	Jnuior Chemist, Pittsburg, Pa.	9-29
11- 9	Mining Engr., Pittsburg, Pa.	9-29
11- 9	Testing Engr., Wash., D. C.	9-29
11- 9	**Testing Engr., Seattle, Wash.**	**10- 6**
11- 9	**Electrical Asst., Wash., D. C.**	**10- 6**
11- 9	**Supt. of Construction, McNeil Island, Wash.**	**10- 6**
11- 9	**Laboratory Aid, Pittsburg, Pa.**	**10- 6**
11- 9	Mechanician, Mount Weather, Va.	10-20
11- 9	Inspector of Engineering, Washington, D. C.	10-20
11- 9	Hydro-electrical engineer, San Francisco, Cal.	11-20
11- 9	Wireless telepraph operator, Hawaii	10-20
11-16	Assistant chemist, Trenton, N. J.	10-20
11-16	Sanitary engineer, Trenton, N.J.	10-20
11-16	Sanitary inspector, Trenton, N.J.	10-20
11-26	Telephone traffic inspector, Albany, N. Y.	10-20
11-26	**Special investigator, Albany, N.Y.**	**10-20**
11-26	**Mechanical engr., Albany, N.Y.**	**10-20**
11-26	**Junior statistician, Albany, N. Y.**	**10-20**
11-26	**Highway inspector, Albany, N.Y.**	**10-20**
11-26	**Chief investigator, Albany, N. Y.**	**10-20**
11-26	**Assistant gas inspector, Albany, N. Y.**	**10-20**
11-26	**Assistant chief, Albany, N. Y.**	**10-20**

DIPPER DREDGES.—The Marion Steam Shovel Co., Marion, O. Leather; 9 × 6¼ ins.; pp. 77; illustrated.

The dredges include machines for ditching and deep water work, some of the former having the A-frame braced by incased telescopic spuds sealed on the banks. The machines are of various designs, handling buckets of ½-yd. to 4 yds. capacity. A special dredge for the Ohio State canals is made with an A-frame that can be lowered to permit the machine to pass under low bridges. Ladder dredges, steam shovels and unloading plows for construction trains are included also.

MOTOR FREIGHT TRUCKS.—American Locomotive Co., New York and Chicago. Paper; 8¼ × 11 ins.; pp. 32; illustrated.

These trucks are intended to take the place of heavy freight and delivery wagons. The load capacity is three tons, and the motor is a four-cylinder gasoline engine developing 24 HP. at 1,000 r. p. m. Numerous views show the engines and mechanical equipment, and also a number of the motor trucks as used by express companies, department stores and manufacturers. The weight is about 5,000 lbs. (exclusive of the body), and the speed is from three to nine miles an hour.

HARDENING FURNACE.—General Electric Co. Bulletin 4737. Paper; 8 × 10½ ins.; pp. 8; illustrated.

An electric hardening furnace, designed for the hardening or tempering of tool steel, is described and pictured. In the operation of this furance, metallic salts are brought to a liquid state by passing electric current through them, and the heating of the tool to be hardened can be exactly controlled and kept uniform throughout over a wide range of temperature. The bulletin contains sectional views of the furnace, diagrams of electrical connections, as well as a chart showing the power required to operate it.

HOSE NOZZLES.—Andrew J. Morse & Son, Inc., Boston, Mass. Paper; 5½ × 9 ins.; pp. 27; illustrated.

The development of the Morse monitor nozzle, by which one man could easily control a stream of water of any size and at any pressure, is set forth in this catalog. In the latest design of Morse nozzle the water comes in two parallel streams which are finally joined without meeting obstructions and avoiding friction losses of impact. The combined stream passes out through a smooth play pipe. This nozzle is designed to be attached to hose wagons, aerial ladder-trucks, water-towers, fire-boats, tug-boats, etc.

SUBMERSIBLE TORPEDO BOATS.—The American Laurenti Co., Beach and Ball Sts., Philadelphia, Pa. Paper; 9½ × 12 ins.; pp. 31; illustrated.

This contains photographs and descriptions of the Laurenti type of submersible torpedo boats built by the Fiat san Giorgio Co., of Spezia, Italy. Introductory paragraphs explain the probable value of the submarine in naval warfare, and distinguish between the submersible and the submarine types. The submersible has a hull shaped more nearly like an ordinary surface hull than like the cigar-shaped hull of the usual type of submarine. This feature is said to give the submersible boat greater speed and cruising radius while running at the surface.

VANADIUM STEELS.—American Vanadium Co., Frick Bldg., Pittsburg, Pa. Paper; 4½ × 7 ins.; pp. 81; illustrated.

This pamphlet outlines the properties given to steel by the addition of vanadium, and also the proper heat treatment of this alloy steel. Particulars of tests are given, and numerous views of steel pieces (large and small) which have been tested by bending, twisting, etc. Separate pamphlets relating to special subjects are as follows: (1) Vanadium in Railway Steels, (2) The Static and Dynamic Properties of Steels, (3) Alloy Steels for Motor Car Construction, (4) Vanadium in Ferro Alloys, Steels and Brasses, (5) Spring Steel, (6) Case Hardening Vanadium Steel.

RIVETED PRESSURE PIPE AND FITTINGS.—American Spiral Pipe Works, Chicago Ill. Paper; 7¾ × 10¼ ins.; pp. 78; illustrated.

Views and profiles of pressure pipe lines are an interesting feature of this catalogue, the pressures running as high as 250 lbs. and 375 lbs. per sq. in. Pressed, rolled and forged steel fittings, specials, flanges and joints are included, and there are particulars as to the manufacture and preservative treatment of the pipe. Dimensions and price-lists are given. Other specialties include gate valves, gaskets, "giants" for hydraulic mining, exhaust heads, boiler and tank flanges, etc. There are also tables of flow of water, weir measurements, etc.

COAL HANDLING PLANTS.—Mead-Morrison Mfg. Co., Cambridge, Mass. Paper; 12 × 9 ins.; pp. 135; illustrated.

Practically the whole of this pamphlet is devoted to views of plants installed by the company, and of machinery and equipment for such plants. They include hoisting and conveying apparatus, traveling bridges and towers, cable haulage systems, grab buckets, industrial railway equipment, etc. The installations include railway and waterside coal storage, power plants, factories, coal yards, navy yards, etc. In addition to handling coal, some plants are shown for handling lumber, sand, gravel, asphalt and freight; also for excavating and dredging on construction work.

STEAM INJECTORS.—Schutte & Koerting Co., Philadelphia, Pa. Section A, Catalog 1. Paper; 8 × 11 ins.; pp. 16; illustrated.

What is known as a double-tube boiler-feed injector is described in its several patterns in this section of the catalog. The injector is a combination of two jets, the lower one being proportioned for extreme temperature and for quick and strong action. The discharge is into the upper jet, where the water receives an additional impulse to carry it into the boiler. Varying volume allows proper working at high steam pressure as well as at low, and increased pressure is claimed to admit of increased high temperature. The injector is designed to be entirely automatic.

AIR COMPRESSORS.—Sullivan Machinery Co., Chicago. Paper; three pamphlets; 6 × 9 ins.; pp. 20, 20 and 16; illustrated.

One of the 20-page pamphlets relates to Corliss tandem compound machines, having the steam cylinders on one side and the air cylinders on the opposite side of the fly-wheel shaft. The other pamphlet describes a small belt-driven class of compressors, and shows these mounted as portable units on mine cars and on a wagon bed. The 16-page pamphlet relates to duplex compressors driven by belts and by direct-connected steam engines. Particulars are given of the intercooler used in two-stage compressors. Each pamphlet contains tables of the dimensions, etc., of the several sizes of compressors of the different types.

WOOD WATER PIPE.—A. Wyckoff & Son Co., Alexandria, La. Paper; 6 × 9 ins.; pp. 64; illustrated.

This company has recently established a plant in the South and a few pages of this booklet are given up to a description of this plant. The rest of the pamphlet is a very interesting description of wood pipe generally, its history, manufacture, uses, laying, jointing and tables of loss of head due to friction in new cast-iron pipe, riveted steel pipe and wood pipe. Three pages of numerical examples illustrating the use of the tables are also given. Some interesting matter on the durability of cypress wood and instances of its very ancient use are well worth reading. Gum wood is also described with reference to recent uses to which it has been put.

DITCHER AND TRENCH EXCAVATOR.—The Buckeye Traction Ditcher Co., Findlay, O. Paper; two pamphlets; 7¾ × 10¼ ins.; pp. 31 and 27; illustrated.

Both machines are of similar design, consisting of a self-propelling frame or tractor carrying a large rear wheel which can be adjusted vertically. The rim of this wheel is fitted with cutters and buckets. The excavated material is delivered upon a belt conveyor extending laterally to the line of excavation. Special forms of buckets are used for cutting ditches with sloping sides. Some of the machines have a "caterpillar" traction or endless track support in place of the ordinary rear wheels. Particulars are given of the machines and their work. There are also pamphlet reprints on cost of trench excavation by machinery and farm ditching by machinery.

CENTRIFUGAL PUMPS.—American Well Works, Aurora, Ill. Bulletin 104. Paper; 7½ × 10½ ins.; pp. 64; illustrated.

Here is grouped together a miscellaneous lot of matter on centrifugal pumping and allied subjects. First, there is a discussion of the field of the centrifugal pump and an outline of the information necessary for giving satisfactory attention to inquiries or orders and directions for installing centrifugal pumps to get the best results. Following this are pictured and described the several designs of pumps made by this company, and later are tables of dimensions, repair parts, etc. Toward the end of the book are tables showing the capacity of standard irrigation ditches, friction of water in piper and elbows, and a design for a standard weir box adapted for measuring the quantity of water discharged by a pump.

INDUSTRIAL TRUCKS, TURNTABLES AND TRACK.—Whiting Foundry Equipment Co., Harvey, Ill. Paper; 6 × 9 ins.; pp. 16; illustrated.

This equipment is for industrial railways in yards, shops and foundries. The trucks are of various designs for ordinary and special purposes, and include different types of core oven cars. The turntables are 3½ to 12 ft. diameter, with a top plate resting on rollers carried by a spider frame. The top is usually flat but may have rails attached to it, or grooves cast in it for the wheel flanges. Hand and electric transfer tables of small size are included also. The tracks are of T rails, and may be furnished in sections, having the rails riveted to steel ties. Cast-iron plates are used at intersections.

CONCRETE.—The Lawrence Cement Co., New York City. Stiff paper; 6 × 9¼ ins.; pp. 194; illustrated.

With the knowledge that there is a large field for the use of concrete among the laity, as distinguished from the engineer and contractor, many cement companies have recently issued publications giving information upon the value of concrete in various fields of activity. This book, noted above, is one of the best of such publications that has come to our notice. It should be especially useful to farmers and to householders who wish to add to the looks and utility of their grounds. While the more technical side of construction is not touched upon to any great extent, still there is considerable descriptive of sidewalks and building construction.

COMPRESSED AIR HAULAGE.—H. K. Porter Co., Pittsburg, Pa. Cloth; 6 × 9 ins.; pp. 81; illustrated.

About half of this publication is devoted to the description of the mechanism of the company's compressed air locomotives, the dimensions of different classes of locomotives, and the compressor plants for charging them. The remainder contains much interesting information as to compressed air haulage in general, its various applications, its cost, etc. Details are given of a number of plants for mines, lumber yards, etc. Safety from fire is one of the special advantages, and an illustration shows a compressed air locomotive for handling explosives and shells at magazines of the U. S. government. The smallest mine locomotive built is a four-wheel machine weighing 4¼ tons, while the largest is a six-wheel machine weighing 20 tons.

WOOD PRESERVATION.—Internatonal Creosoting & Construction Co., Galveston, Tex. Cloth; 7½ × 4¾ ins.; pp. 90; illustrated.

The company has two plants, at Beaumont and Texarkana, and are arranged to treat wood with any of the preservative methods now in use. These include (1) plain creosoting; (2) creosote and zinc chloride (Allardyee process); (3) zinc chloride (Burnetising); (4) zinc chloride, glue and tannin (Wellhouse process); (5) creosote forced in under heavy air pressure (Crevaire process) ;and (6) creosoting, with extraction of surplus oil by a vacuum (Rueping process). The economic advantages of preservative treatment for railway ties, piles, poles, paving blocks, etc., are reviewed, and the illustrations include numerous specimens of treated material. Testimonials are given and there are lists of users of material treated by the several processes.

STEAM SHOVELS.—The Bucyrus Co., South Milwaukee, Wis. Leather; 10½ × 7¾ ins.; pp. 119; illustrated.

About 80 pages are devoted to illustrations and brief descriptions of steam shovels of various sizes, which are shown in use on a variety of construction works not only in this country but abroad. In addition to the construction work, they are shown in use at brick-yards, quarries, ore stock-yards, gravel pits, etc. A special design is made for sewer trench excavation. It is stated that of 100 steam shovels on the Panama Canal, 77 are Bucyrus machines. Dipper, ladder and hydraulic dredges are included, and also the Heyworth-Newman drag-line excavator. A special feature of this last machine is that it has a rigid bail, which holds the bucket down and compels it to dig, so that it cannot slide over stiff or hard material. Other machinery listed in this publication includes railway pile-drivers, wrecking cranes, unloading plows for gravel trains, and rotary snow plows.

COMPRESSOL FOUNDATIONS.—Hennebique Construction Co., New York City. Paper; 6¾ × 9½ ins.; pp. 12; illustrated.

Some ten years ago in Engineering News of Sept. 27, 1900, p. 209, we described the system of foundations developed in France in connection with the buildings for the Paris Exposition of 1900. The system consisted, briefly, of forming holes through strata of soft material by letting a conical weight drop from a pile-driver. The hole thus formed was later filled with sand. Weights of different shape were also used to compress the soil on which the foundation was to rest. The system described in this catalog resembles the French system above referred to, but differs from it in that the hole made through the compressible soil is filled with concrete instead of sand so that a concrete pile is formed when the material settles. Such piles were used in September, 1909, to form the foundation for a power-house for a chemical company at Perth Amboy, N. J., of which Mr. Walter Kidde, 90 West St., New York City, was the constructing engineer.

REFUSE DESTRUCTORS.—Power Specialty Co., 111 Broadway, New York. 6 × 9 ins.; illustrated. (1) The Destructor Company; pp. 34; (2) The Milwaukee Destructor, pp. 15.

The first of these pamphlets includes a description and the results of tests of the Heenan & Froude refuse destructor, recently completed and tested at Milwaukee, Wis. (See Eng. News, July 21, 1910). Then follows the official report on the structure of the same British type at West New Brighton, Borough of Richmond, New York City, and also a copy of a report on the official test of the destructor at Westmount, P. Q. Finally, lists are given of installations of Heenan & Meldrum destructors for cities, institutions and industrial plants throughout the world. Most of the plants in these lists are naturally located in Great Britain, and relatively few in North America. We find, however, that destructors of one or the other of these British types have already been installed in a surprisingly large number of places in the United States and Canada.

The second pamphlet duplicates the information and illustrations relating to the Milwaukee destructor given in the first one.

COAL MINING MACHINERY.—Ingersoll-Rand Co., New York. Paper; 6 × 9 ins.; pp. 24; illustrated.

A pneumatic pick machine, or "puncher," particularly adapted for undercutting in horizontal seams, is described in this bulletin. The general design comprises a horizontal cylinder, with proper valve gear, mounted on a two-wheel truck. In the cylinder a heavy piston rod gives the punching thrust to the steel pick which is carried on the end of the piston rod. Should the pick stick in the cut so that the piston stops, the valve movement continues, alternate impulses on either piston face continuing so that the pick is quickly worked loose. The back part of the main valve is larger than the forward, so that the forward blow of the pick is quicker and heavier than the backward pull, which is claimed to be an economical condition. The blow is controlled by two small screws on the valve chest which regulate the governing speed of the auxiliary valve, which in turn controls the movement of the main valve.

STEAM HEATING.—American District Steam Co., Lockport, N. Y. Catalog 119. Paper; 6 × 9 ins.; pp. 42; illustrated.

The "atmospheric system" of steam heating designed and developed by this company is set forth in this attractive booklet. Steam is supplied to the radiator at practically atmospheric pressure and the term "atmospheric" is used to distinguish this system from the forced or vacuum types. The supply may be from an ordinary steam boiler through underground mains conveying steam from a central plant, or the supply may utilize the exhaust steam. Whatever the original supply, the pressure is usually reduced as it enters a building by means of a pressure-reducing valve to approximately 5 oz. Steam is suppiled to the radiator at the top through a special valve so graduated that it is possible to supply steam to any desired portion of the radiator up to 85% of the total surface. The portion of the radiator not supplied with steam is used as hot-water radiation. The water of condensation passes from the radiator into the return piping through an ordinary union elbow. The return pipes, containing no steam, are not covered and are simply grouped into a main return and are connected to an open receiver. The water of condensation passes from this receiver through a meter to the sewer or to the underground return lines of the district heating system. No air valves are required with this system, as any air in the system is carried to the basement through the return piping and thus to the atmosphere by connection from the top of the receiver.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56 of Advertisements and Construction News page 190.

PAVING.

Portsmouth, Va., Oct. 15, 1910.

Sealed proposals will be received at office of City Clerk until 12 o'clock noon, October 31, 1910, for regulating and paving such streets in the city of Portsmouth, Va., as the Street Committee may determine upon.

An approximate schedule of the work to be done is as follows:

71,350 square yards of pavement.

32,544 lineal feet of new curb, all granite, or 28,196 lineal feet thereof, to be concrete combined curb and gutter, and 4,348 lineal feet thereof to be concrete curb.

Bidders must submit as a part of their proposal full "Specifications" in detail of the pavement proposed to be constructed under their proposal.

Bids made out in full on the blank form of proposal attached to the specification must be enclosed in a sealed envelope addressed to L. P. Slater, City Clerk, Portsmouth, Va., and marked "Proposal for the Improvement of Streets, Portsmouth, Va."

Bids must be made out for completed work as per schedule and no partial bids will be considered.

Bids will be received for any one of the following pavements:

1. Sheet asphalt on concrete foundation.
2. Filbertine on concrete foundation.
3. Warren's bitulithic on concrete foundation.
4. Blome Co. Granitoid Block Pavement.
5. Bitumass on concrete foundation, or any other suitable "smooth" pavement on concrete foundation as may be selected by the Street Committee.

Bids for paving will be at so much per square yard and for curbing at so much per lineal foot.

A certified check on some solvent local bank for 5 per cent. of bid must accompany each bid under the conditions expressed in the blank forms of proposal.

The right to reject any or all bids or proposals is especially reserved. The right is also especially reserved to accept such bids as, in the opinion of the Street Committee, propose the use of the best materials, and promise the best and most lasting results, regardless of the prices named therein.

E. B. HAWKS,
Chair. St. Com. C. C.
S. T. MONTAGUE,
Chair. St. Com. B. of A.
V. O. CASSELL, JR.,
City Engineer.

BRIDGE.

Layton, N. J.

Notice is hereby given that the subscribers will ask for bids on Friday, October 28th, 1910, at 2:30 P. M., at the Hotel in the Village of Layton, Sussex County, New Jersey, for furnishing and erecting an Iron Bridge in Layton.

General Specifications as follows:

Style of bridge, Truss; Number of panel, four; clear span between face of abutments, forty-one; width of bridge, nineteen feet from outside of outside of trusses; Floor joist, nine lines of I-beams; Capacity of live load, one hundred pound per square foot with a safety factor of four. Reinforced concrete floor and concrete wheel guards, hub guards, two lines of one and one-half-inch gas pipe.

Iron work to have one coat of paint before shipment and all exposed iron work to have one coat after erection.

The subscribers reserve the right to reject any or all bids.

JOHN J. VAN SICKLE,
FRANK SMITH,
EDWARD N. WYKER,
LINUS CLARK,
LOREN T. COLE,
Chosen Freeholders of Sussex Co.
Oct. 18, 1910.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., Oct. 17, 1910.—Notice is hereby given that the time for opening bids for the pneumatic door operating system in the new Post-Office building at New York, N. Y., has been extended from November 3d, 1910, to 3 o'clock P. M., December 1, 1910. JAMES KNOX TAYLOR, Supervising Architect.

SEWER SYSTEM.

CHANGE OF DATE.

Bellefontaine, Ohio, Oct. 8, 1910.

Sealed proposals for the construction of Section 1 and Section 2 of the Sanitary Sewer System of Bellefontaine, Ohio, will be received by the Director of Public Service up to 12 o'clock noon of Tuesday, Nov. 1st, 1910.

Each bid must be accompanied by a bidding bond or certified check on a local bank for $1,000.00 for each section bid upon.

Contractors may submit bids on either section or upon both sections.

The successful bidder will be required to furnish a surety bond for fifty per cent. of the contract price.

Plans and specifications may be seen at the office of the City Engineer, Bellefontaine, or at the office of The Riggs & Sherman Co., Toledo, Ohio.

Specifications, instructions and bidding blanks will be furnished on application to the Director of Public Service.

The amount of the work is approximately as follows:

Section 1.

30,701 lin. ft. 8" to 24" sewer.
81 Manholes and drop manholes.
13 Flush tanks.
7 6/10 tons iron pipe.
118 cu. yds. concrete—together with the necessary excavation and embankment.

Section 2.

46,110 lin. ft. 8" to 18" pipe.
151 Manholes and drop manholes.
15 Flush tanks.
9 6/10 tons iron pipe.
195 cu. yds. concrete—together with the necessary excavation and repaving.

The Director of Public Service reserves the right to reject any or all bids or to waive defects in bids in the interest of the City.

All bids shall be sealed, and endorsed "Proposal for Building Sewers, Bellefontaine, Ohio," and addressed to the Director of Public Service.

ANSON B. CARTER,
Director of Public Service.

SEWERS.

Caro, Mich.

Sealed proposals will be received by the Board of Trustees of the Village of Caro, Mich., up to 2:30 o'clock p. m., Thursday, October 27, for furnishing all material for and constructing sewers in accordance with the plans and specifications on file in the City Hall.

There is approximately 10,055 lin. ft. of 8, 10, 12, 15-inch sewer, together with the necessary manholes and flush tanks. Each bid must be accompanied by a certified check for $500 as a guarantee of good faith on the part of the bidder. The successful bidder will be required to furnish a satisfactory surety company bond in the sum of $5,000.

Proposal blanks and instructions to bidders may be had on application to the Village Clerk.

Plans and specifications may be seen at the City Hall at Caro and at the office of the engineers, The Riggs & Sherman Co., 613 Nasby Bldg., Toledo, Ohio. Bids will be opened and read publicly in the presence of the bidders and all are invited to be at the Council room at the opening of bids.

The Board of Trustees reserves the right to reject any or all bids or to waive defects in bids in the interest of the village. By Order of the Board.

F. D. RIDDLE, Pres.
JOE WALTON, Clerk.

WATER SUPPLY SYSTEM.

Borough of Hohokus, Bergen Co., N. J.

Separate sealed proposals will be received by the Mayor and Council of the Borough of Hohokus, up to 8 P. M., Friday, October the 28th, at the Borough Hall, Hohokus, Bergen Co., New Jersey, for the construction of a water supply system for said Borough.

The proposed work will consist of the following:

Furnishing and laying complete about 15,000 lineal feet of cast-iron water pipe (high pressure), in size from 4 to 10 inches in diameter (about 325 tons), together with necessary fittings, specials, hydrants, valves, etc., etc.

Bids will be received under either of the following conditions:

1st: For furnishing material only, delivered F. O. B. at the Erie R. R. siding at Hohokus, N. J.

2nd: For furnishing labor only.

3rd: For furnishing material and labor complete.

Specifications, blank proposals, and further information can be obtained at the office of Wm. Ferguson & Son, Borough Engineers, 152 Market St., Paterson, N. J., or from Mr. John DeVore, Borough Clerk, Hohokus, N. J.

Specifications can also be seen at the office of the "Engineering News," 220 Broadway, New York.

A certified check for five hundred dollars payable to the Collector of the Borough of Hohokus, must accompany each bid, as a guarantee of good faith on the part of the bidder, and to insure execution of proper contracts and bonds.

The Borough Council reserves the right to reject any or all bids.

By order of the Borough Council.

JOHN DE VORE,
Borough Clerk.

ROSS MERSEREAU,
Mayor.

PAVING.

Essex Co., N. J.

Sealed proposals will be received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of the County of Essex, State of New Jersey for grading and paving with Telford pavement.

Gregory Avenue in the town of West Orange, beginning at Mount Pleasant Avenue and running to Luddington Avenue, a distance of 8,846 feet.

Union Avenue, beginning at Jerolamon Street in the Township of Belleville, and running to the Avondale Road in the Town of Nutley, a distance of [illegible]133 feet.

Also for coating with macadam:

Green Brook Road, in the Township of Caldwell, beginning at Pier[illegible]ne and running to the North Caldwell Line a distance of 13,344 feet.

Proposals are to be submitted to the Committee on Thursday, November 10th, 1910, at 10 A. M., at the rooms of the Committee, No. 312 Court House, Newark, N. J., and at no other time or place.

Plans and specifications may be seen at the above office and at the office of the State Commissioner of Public Roads, State House, Trenton, N. J.

Each proposal to be accompanied with a certified check for one thousand dollars ($1,000.00) to ensure the execution of the necessary contract, and to be endorsed on the outside with the name of the bidder and the work he proposes to do.

Each bidder to submit separate proposals for each road.

The Committee reserve the right to reject any or all bids.

WALLACE OUGHELTREE,
Director.

Situations Open

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